U.S. SCHOOLS OF PUBLIC HEALTH

DATA REPORT ON APPLICANTS, STUDENTS, GRADUATES AND EXPENDITURES 1985-86

WITH TRENDS ANALYSIS FOR 1974-75 THROUGH 1985-86

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April 1987

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PREFACE

Schools of public health have been educating professionals in the techniques of health preservation and disease prevention and control since the first decades of the twentieth century. Some schools of public health had their beginnings in university schools of medicine; others were conceived from the outset as autonomous units within their parent institutions. Today there are twenty-four accredited schools of public health in the United States, at eight private and sixteen public universities.[1]

Unlike other health professional schools which emphasize a specific clinical discipline (for example medicine, nursing or dentistry), schools of public health educate a wide range of professionals, from biostatisticians and epidemiologists to health administrators, community health educators, and specialists in areas such as environmental and occupational health, mental health, population studies, international health and the behavioral and social sciences.

The schools have a combined enrollment of over 9,000 students and a faculty in excess of 1,800. Graduate education in each of the 24 schools is organized around nine major specialties:

- Biostatistics
- Epidemiology
- Health Services Administration
- Public Health Practice and Program Management
- Health Education
- Environmental Sciences
- Occupational Safety and Health
- Nutrition
- Biomedical and Laboratory Sciences

Graduates of the schools of public health work primarily in the fields of health promotion and disease prevention. They represent the basic resource pool from which federal, state and local health and environmental agencies draw their manpower needs. Graduates also work and teach in university settings. Industry relies heavily on the schools to train employees involved in industrial hygiene, occupational safety and health, environmental toxicology, and other areas.

The Association of Schools of Public Health (ASPH) operates a Data Center that collects and compiles aggregate data on applicants, students, graduates, faculty and expenditures in each school of public health. The data collected serves the schools and various federal, state and local agencies and private institutions in planning and implementing their respective public health training, research and service activities.

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1 The College of Public Health at the University of South Florida was accredited in Spring 1987. It is not included in this report covering the 1985-86 academic year.

NOTES ON DATA

1. Data collection -- ASPH has collected data on students, graduates, applicants, and expenditures since the 1974-75 academic year. From 1974-75 through 1980-81, data on students was collected from individual questionnaires, while the remainder of the data was collected in aggregate form from the schools. Since the 1981-82 academic year, all data has been collected in aggregate form. Data forms covering the previous academic year are distributed to the schools in October of each year. In addition, there is a limited amount of data from the 1960s that was collected by Dr. James Troupin for the American Public Health Association (APHA). The Troupin data is used in the trends analysis where applicable.

2. Time period -- Data on students and applicants is for the Fall semester. Data on graduates covers the entire academic year, and data on expenditures covers the entire fiscal year.

3. Degrees -- The following degree categories are used:

   MPH - Master of Public Health
   MS - Master of Science
   MSPH - Master of Science in Public Health
   MHA/MHSA - Master's degrees in health services administration including Master of Health Administration (MHA), Master of Health Services Administration (MHSA), and Master of Hospital Administration (MHA).
   OTHER.MAST - All other master's degrees including Master of Arts (MA), Master of Occupational Health (MOH), Master of Health Science (MHS), Master of Science in Environmental Engineering (MSEE), Master of Science Hygiene (MSHyg), Master of Public Health Education (MPHE), Master of Arts in Teaching (MAT).
   DrPH - Doctor of Public Health
   ScD - Doctor of Science
   PhD - Doctor of Philosophy
   OTHER.DOC - All other doctorates including Doctor of Health Science (DHSc), Doctor of Education (EdD) and Doctor of the Environment (DEnv).
   JOINT.DEG - All joint degrees, which combine a school of public health degree with an outside degree, such as the following:

      MD - Doctor of Medicine
      DDS/DMD - Doctor of Dental Surgery
      DVM - Doctor of Veterinary Medicine
      OD - Doctor of Optometry

MN/MSN - Master of Nursing
MA - Master of Arts
MBA - Master of Business Administration
MPPM - Master of Public and Private Management
MS - Master of Science
MSW - Master of Science in Social Work
MSUP - Master of Science in Urban Planning
MPA - Master of Public Administration
MIA - Master of International Affairs
JD - Doctor of Laws
PhD - Doctor of Philosophy

NONDEGREE - All students not enrolled in a formal degree program. Includes special students, postdoctoral fellows and persons enrolled in certificate or credential programs.
UNKNOWN - Degree program is unknown.
BACHELOR - Data on undergraduates was collected from 1974-75 through 1980-81. Undergraduates are included in data for those years.

4. Areas of Specialization -- The following categories are used:

BIOSTAT - Biostatistics, biometry.
EPID - Epidemiology. Where epidemiology and biostatistics programs are combined, data is recorded under epidemiology.
HSA - Health services administration, hospital administration, health policy, health planning, health management, health services organization, health law, evaluation research.
PHP&PM - Public health practice and program management, maternal and child health, gerontology, dental public health, optometric public health, public health nursing, public health social work, veterinary public health, mental health, community health sciences, community health practice.
H.EDUC/BS - Health education, public health education, health education administration, behavioral sciences, socio-medical sciences, health promotion, health behavior.
ENV.SC - Environmental science, environmental health, toxicology, radiological health, environmental chemistry, water quality, environmental health planning. Where environmental health and occupational safety and health programs are combined, data is recorded under environmental health.

OS&H - Occupational safety and health, industrial hygiene, occupational medicine, aerospace medicine.
NUTR - Nutrition, public health nutrition.
BIOMED - Biomedical and laboratory sciences, microbiology, parasitology, immunology, cancer biology, biochemistry, biophysics, pathobiology.
OTHER - All other areas of specialization including international health, population/family planning, tropical public health, urban health, disease control, genetics, clinical research analysis. Until 1982 behavioral sciences was classified under OTHER.
NONSPEC - Nonspecialized, general public health studies.
NONDEGREE - All nondegree students and applicants are classified together regardless of area of study.
UNKNOWN - Area of specialization is undecided or unknown.

The classification system for areas of specialization was developed by ASPH in 1978 and has been used since the 1979-80 academic year. It was developed to consolidate the over 200 programs in the schools into a manageable number for data collection and analysis. Although the system works reasonably well, categorization is not always precise and there is often some overlap. For example, two schools have program areas in Population and Family Health, which includes both population (OTHER) and maternal and child health (PHP&PM). There are many such cases, and the areas of specialization should be viewed as general, rather than precise, categories.

A number of schools allow dual specializations. Applicants, students and graduates with dual specializations are recorded as .5 in each area.

5. Status -- The following categories are used for students:

F-T - An on-campus student registered for nine or more credit hours per quarter or semester.
P-T - An on-campus student registered for less than nine credit hours per quarter or semester.
OTHER - A student enrolled in a nontraditional program. Includes both extended degree or other nontraditional programs located at the main campus of the school of public health and also those programs offered at sites other than the main campus of the school of public health.
UNKNOWN - Status is unknown.

I. APPLICANTS

A. Fall 1985 Applicants

Any discussion of data on applicants must be preceded by the warning that ASPH collects data on applications rather than individuals. ASPH does not have a centralized application process, and there is currently no means of determining the average number of applications submitted per applicant. Nor is there a means of determining whether there have been differences in this average over time or among population groups. Therefore, applicant data should be viewed with caution.

There were 10,115 applications for Fall 1985, the same level as the previous year. Over 59% of the applicants were female, almost 21% were foreign and over 23% of the U.S. applicants were members of minority groups. Over half of the applicants were concentrated in three areas--health services administration (29%), epidemiology (14%) and environmental sciences (12%).

Of the total applications, 63.9% were accepted, compared to 63.5% in Fall 1984. Acceptance rates were similar for males and females, lower for foreign applicants (54%) than for U.S. applicants (65%), and lower for members of minority groups (48-64%) than for whites (67%).

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF APPLICANTS
Fall 1985

SEX & CITIZENSHIP					
MALES	3926	40.9%	U.S.	7451	79.3%
FEMALES	5680	59.1	FOREIGN	1944	20.7
UNKNOWN	509	-	UNKNOWN	720	-
TOTAL	10115	100.0%	TOTAL	10115	100.0%
U.S. MALES	2720	36.5%	FOR.MALES	1146	59.0%
U.S. FEMALES	4727	63.5	FOR.FEMALES	798	41.0
UNKNOWN	4	-	UNKNOWN	-	-
TOTAL	7451	100.0%	TOTAL	1944	100.0%

~~RACE~~ (U.S.)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	179	265	0	444	6.7%
BLACK	210	340	0	550	8.3
HISPANIC	174	313	0	487	7.3
AMERIND	31	24	0	55	0.8
(TOTAL MIN.)	(594)	(942)	(0)	(1536)	(23.1)
WHITE	1862	3264	0	5126	76.9
UNKNOWN	264	521	4	789	-
TOTAL	2720	4727	4	7451	100.0%

AREA OF SPECIALIZATION		
BIOSTAT	393.0	4.1%
EPID	1372.5	14.3
HSA	2797.5	29.3
PHP&PM	829.5	8.7
H.EDUC/BS	963.0	10.1
ENV.SC	1104.5	11.6
OS&H	153.0	1.6
NUTR	353.0	3.7
BIOMED	319.0	3.3
OTHER	936.0	9.8
NONSPEC	331.0	3.5
NONDEGREE	456.0	-
UNKNOWN	107.0	-
TOTAL	10115.0	100.0%

TABLE 1-1
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1985

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	50.0	71.0	.0	121.0
BOSTON	84.0	211.0	.0	295.0
CAL-BERK	204.0	467.0	.0	671.0
CAL-UCLA	265.0	462.0	.0	727.0
COLUMBIA	212.0	406.0	.0	618.0
HARVARD	357.0	373.0	.0	730.0
HAWAII	95.0	146.0	.0	241.0
ILL	113.0	204.0	3.0	320.0
JHU	545.0	593.0	.0	1138.0
L.LINDA	85.0	100.0	.0	185.0
MASS	.0	.0	192.0	192.0
MICH	320.0	413.0	.0	733.0
MINN	146.0	279.0	1.0	426.0
N.CAR	359.0	583.0	.0	942.0
OKLA	84.0	69.0	.0	153.0
PITT	208.0	285.0	.0	493.0
PR	83.0	206.0	.0	289.0
S.CAR	113.0	136.0	.0	249.0
S.DIEGO	93.0	133.0	.0	226.0
TEXAS	204.0	162.0	1.0	367.0
TULANE	.0	.0	312.0	312.0
WASH	173.0	172.0	.0	345.0
YALE	133.0	209.0	.0	342.0
Total	3926.0	5680.0	509.0	10115.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	110.0	9.0	2.0	121.0
BOSTON	207.0	21.0	67.0	295.0
CAL-BERK	578.0	93.0	.0	671.0
CAL-UCLA	531.0	196.0	.0	727.0
COLUMBIA	513.0	105.0	.0	618.0
HARVARD	529.0	201.0	.0	730.0
HAWAII	182.0	59.0	.0	241.0
ILL	157.0	23.0	140.0	320.0
JHU	752.0	386.0	.0	1138.0
L.LINDA	108.0	76.0	1.0	185.0
MASS	.0	.0	192.0	192.0
MICH	601.0	131.0	1.0	733.0
MINN	367.0	55.0	4.0	426.0
N.CAR	725.0	217.0	.0	942.0
OKLA	132.0	21.0	.0	153.0
PITT	409.0	84.0	.0	493.0
PR	268.0	21.0	.0	289.0
S.CAR	209.0	40.0	.0	249.0
S.DIEGO	217.0	9.0	.0	226.0
TEXAS	272.0	94.0	1.0	367.0
TULANE	.0	.0	312.0	312.0
WASH	298.0	47.0	.0	345.0
YALE	286.0	56.0	.0	342.0
Total	7451.0	1944.0	720.0	10115.0

TABLE 1-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. APPLICANTS BY SCHOOL & RACE
FALL 1985

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTALMIN.
ALA	3.0	16.0	.0	.0	19.0
BOSTON	3.0	8.0	3.0	.0	14.0
CAL-BERK	49.0	49.0	33.0	14.0	145.0
CAL-UCLA	60.0	45.0	40.0	3.0	148.0
COLUMBIA	.0	.0	.0	.0	.0
HARVARD	49.0	38.0	28.0	2.0	117.0
HAWAII	58.0	6.0	.0	5.0	69.0
ILL	7.0	29.0	4.0	.0	40.0
JHU	55.0	70.0	24.0	1.0	150.0
L.LINDA	5.0	6.0	6.0	1.0	18.0
MASS	.0	.0	.0	.0	.0
MICH	36.0	50.0	13.0	3.0	102.0
MINN	5.0	1.0	1.0	1.0	8.0
N.CAR	22.0	61.0	11.0	8.0	102.0
OKLA	1.0	20.0	9.0	11.0	41.0
PITT	23.0	39.0	.0	2.0	64.0
PR	.0	.0	268.0	.0	268.0
S.CAR	2.0	35.0	2.0	.0	39.0
S.DIEGO	14.0	7.0	12.0	.0	33.0
TEXAS	22.0	43.0	11.0	1.0	77.0
TULANE	.0	.0	.0	.0	.0
WASH	10.0	5.0	9.0	3.0	27.0
YALE	20.0	22.0	13.0	.0	55.0
Total	444.0	550.0	487.0	55.0	1536.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	91.0	.0	110.0
BOSTON	192.0	1.0	207.0
CAL-BERK	433.0	.0	578.0
CAL-UCLA	265.0	118.0	531.0
COLUMBIA	.0	513.0	513.0
HARVARD	372.0	40.0	529.0
HAWAII	103.0	10.0	182.0
ILL	101.0	16.0	157.0
JHU	602.0	.0	752.0
L.LINDA	90.0	.0	108.0
MASS	.0	.0	.0
MICH	473.0	26.0	601.0
MINN	327.0	32.0	367.0
N.CAR	623.0	.0	725.0
OKLA	91.0	.0	132.0
PITT	345.0	.0	409.0
PR	.0	.0	268.0
S.CAR	166.0	4.0	209.0
S.DIEGO	156.0	28.0	217.0
TEXAS	194.0	1.0	272.0
TULANE	.0	.0	.0
WASH	271.0	.0	298.0
YALE	231.0	.0	286.0
Total	5126.0	789.0	7451.0

TABLE 1-3
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY AREA, SEX & CITIZENSHIP
FALL 1985

AREA	MALE	FEMALE	UNKNOWN	TOTAL
BIOSTAT	173.5	207.5	12.0	393.0
EPID	624.0	688.5	60.0	1372.5
HSA	1091.0	1575.5	131.0	2797.5
PHP&PM	226.0	579.5	24.0	829.5
H.EDUC/BS	207.0	687.0	69.0	963.0
ENV.SC	642.5	418.0	44.0	1104.5
OS&H	110.5	42.5	.0	153.0
NUTR	41.5	287.5	24.0	353.0
BIOMED	166.0	131.0	22.0	319.0
OTHER	318.0	536.0	82.0	936.0
NONSPEC	167.0	164.0	.0	331.0
NONDEGREE	129.0	307.0	20.0	456.0
UNKNOWN	30.0	56.0	21.0	107.0
Total	3926.0	5680.0	509.0	10115.0

AREA	U.S.	FOREIGN	UNKNOWN	TOTAL
BIOSTAT	219.5	161.5	12.0	393.0
EPID	963.5	349.0	60.0	1372.5
HSA	2306.0	358.5	133.0	2797.5
PHP&PM	620.0	185.5	24.0	829.5
H.EDUC/BS	775.5	118.5	69.0	963.0
ENV.SC	863.0	196.5	45.0	1104.5
OS&H	136.5	16.5	.0	153.0
NUTR	275.5	52.5	25.0	353.0
BIOMED	193.0	104.0	22.0	319.0
OTHER	556.5	297.5	82.0	936.0
NONSPEC	258.0	73.0	.0	331.0
NONDEGREE	205.0	24.0	227.0	456.0
UNKNOWN	79.0	7.0	21.0	107.0
Total	7451.0	1944.0	720.0	10115.0

AREA	U.S.MALES	U.S.FEMALES	FOR.MALES	FOR.FEMALES
BIOSTAT	94.0	125.5	79.5	82.0
EPID	385.0	577.5	238.0	111.0
HSA	867.0	1438.0	222.0	136.5
PHP&PM	130.0	489.0	96.0	89.5
H.EDUC/BS	152.0	623.5	55.0	63.5
ENV.SC	500.0	362.0	140.5	56.0
OS&H	100.0	36.5	10.5	6.0
NUTR	26.0	249.5	14.5	38.0
BIOMED	97.0	96.0	69.0	35.0
OTHER	156.0	400.5	162.0	135.5
NONSPEC	126.0	132.0	41.0	32.0
NONDEGREE	60.0	145.0	15.0	9.0
UNKNOWN	27.0	52.0	3.0	4.0
Total	2720.0	4727.0	1146.0	798.0

TABLE 1-4
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. APPLICANTS BY AREA & RACE
FALL 1985

AREA	ASIAN	BLACK	HISPANIC	AMERIND
BIOSTAT	16.0	11.0	7.0	.0
EPID	65.0	79.5	51.0	3.0
HSA	113.0	201.5	140.5	22.0
PHP&PM	37.0	46.5	38.0	5.0
H.EDUC/BS	41.0	53.5	70.0	7.0
ENV.SC	41.0	50.0	53.5	4.0
OS&H	14.0	9.5	1.0	.0
NUTR	14.0	17.0	27.0	2.0
BIOMED	26.0	11.0	10.0	4.0
OTHER	43.0	43.5	30.0	5.0
NONSPEC	19.0	15.0	35.0	.0
NONDEGREE	13.0	11.0	23.0	2.0
UNKNOWN	2.0	1.0	1.0	1.0
Total	444.0	550.0	487.0	55.0

AREA	WHITE	UNKNOWN	TOTAL
BIOSTAT	168.5	17.0	219.5
EPID	703.0	62.0	963.5
HSA	1582.5	246.5	2306.0
PHP&PM	468.5	25.0	620.0
H.EDUC/BS	540.5	63.5	775.5
ENV.SC	662.5	52.0	863.0
OS&H	110.0	2.0	136.5
NUTR	202.5	13.0	275.5
BIOMED	142.0	.0	193.0
OTHER	326.0	109.0	556.5
NONSPEC	125.0	64.0	258.0
NONDEGREE	62.0	94.0	205.0
UNKNOWN	33.0	41.0	79.0
Total	5126.0	789.0	7451.0

TABLE 1-5
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS BY SCHOOL AND AREA
Fall 1985

	BIOSTAT	EPID.	HSA	PHP&PM	H.EDUC/ BS	ENV.SC	OS&H	NUTR	BIOMED	OTHER	NONSPEC	NON DEGREE	UNKNOWN	TOTAL
ALA		16	3	12	11	18				13	26	19	3	121
BOSTON		55	107.5		43.5	22						67		295
CA/BERK	26	91	166	125	82	64		36	46		35			671
CA/UCLA	41	118	212		93	65		83		115				727
COLUMBIA	13	48	171		23	34				107	76	101	45	618
HARVARD	30.5	77	198.5	51.5	44.5	81		17.5	27	78.5	99	25		730
HAWAII	13	24	56	32	40	22		8		27		17	2	241
ILL		39	43	57		41						140		320
JHU	43	168	208	114	70	150			134	251				1138
L.LINDA	3	9	31	17	70.5	5		22.5		27				185
MASS		36	72		57	22		5						192
MICH	13.5	82.5	296.5	30	72.5	51.5	69	17		64.5			36	733
MINN	32	57	79	111	49	63		35						426
N.CAR	77	125	211	120	114	168		84	43					942
OKLA	3	23	69		24	34								153
PITT	23	70	185			65	23		36	59		32		493
PR	2	33	54	16	43	42		26		10	42	21		289
S.CAR	7	50	84		61	35					12			249
S.DIEGO		26	65	59	42	23	11							226
TEXAS	6	31	44	62	11	27	29			102	41	14		367
TULANE	12	23	57	23	12	21		19	22	82		20	21	312
WASH	38	59	188			28	21		11					345
YALE	10	112	197			23								342
TOTAL	393	1372.5	2797.5	829.5	963	1104.5	153	353	319	936	331	456	107	10115

TABLE 1-6
U.S. SCHOOLS OF PUBLIC HEALTH
APPLICANTS/ACCEPTANCES/ENROLLMENTS BY SCHOOL
Fall 1985

	APPLICATIONS			NEW ENROLLMENTS[1]		
	No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
ALA	121	111	91.7%	96	86.5%	79.3%
BOSTON	295	263	89.2	170	64.6	57.6
CAL-BERK	671	346	51.6	214	61.9	31.9
CAL-UCLA	727	388	53.4	196	50.5	27.0
COLUMBIA	618	448	72.5	273	60.9	44.2
HARVARD	730	439	60.1	236	53.8	32.3
HAWAII	241	193	80.1	122	63.2	50.6
ILL	320	254	79.4	203	79.9	63.4
JHU	1138	717	63.0	357	49.8	31.4
L.LINDA	185	94	50.8	70	74.5	37.8
MASS	192	121	63.0	39	32.2	20.3
MICH	733	452	61.7	219	48.5	29.9
MINN	426	250	58.7	184	73.6	43.2
N.CAR	942	511	54.3	282	55.2	29.9
OKLA	153	126	82.4	88	69.8	57.5
PITT	493	263	53.4	173	65.8	35.1
PR	289	163	56.4	112	68.7	38.8
S.CAR	249	179	71.9	142	79.3	57.0
S.DIEGO	226	185	81.9	111	60.0	49.1
TEXAS	367	253	68.9	133	52.6	36.2
TULANE	312	252	80.8	171	67.9	54.8
WASH	345	216	62.6	133	61.6	38.6
YALE	342	241	70.5	112	46.5	32.8
TOTAL	10,115	6,465	63.9%	3,836	59.3%	37.9%

TABLE 1-7

U.S. SCHOOLS OF PUBLIC HEALTH

APPLICANTS/ACCEPTANCES/ENROLLMENTS BY SEX, CITIZENSHIP, RACE & AREA

Fall 1985

	No. of Schools	APPLICATIONS			NEW ENROLLMENTS		
		No. Made	No. Accepted	% Accepted	No.	As % of Acceptances	As % of Applications
MALES	21	3926	2437	62.1%	1366	56.1%	34.8%
FEMALES		5680	3655	64.3	2260	61.8	39.8
U.S. CITIZENS	21	7451	4837	64.9	2915	60.3	39.1
FOREIGN		1944	1047	53.9	504	48.1	25.9
RACE (U.S.)	20						
ASIAN		444	266	59.9	145	54.5	32.6
BLACK		550	265	48.2	174	65.7	31.6
HISPANIC		487	267	54.8	175	65.5	35.9
(excluding PR)	(19)	(219)	(120)	(54.8)	(71)	(59.2)	(32.4)
AMERIND		55	35	63.6	26	74.3	47.3
TOTAL MINORITY		1536	833	54.2	520	62.4	33.9
WHITE		5126	3454	67.4	2082	60.3	40.6
AREA	23						
BIOSTAT		393	278.5	70.9	154.5	55.5	39.3
EPID		1372.5	890	64.9	477	53.6	34.8
HSA		2797.5	1660.5	59.4	944	56.9	33.7
PHP&PM		829.5	517.5	62.4	326.5	63.1	39.4
H.EDUC/BS		963	548.5	57.0	331.5	60.4	34.4
ENV.SC		1104.5	751.5	68.0	421.5	56.1	38.2
OS&H		153	105	68.6	64.5	61.4	42.2
NUTR		353	180.5	51.1	104	57.6	29.5
BIOMED		319	159	49.8	87	54.7	27.3
OTHER		936	592	63.2	323.5	54.7	34.6
NONSPEC		331	246	74.3	152	61.8	45.9
NONDEGREE		456	439	96.3	389	88.6	85.3
UNKNOWN		107	97	90.7	61	62.9	57.0
TOTAL		10115	6465	63.9	3836	59.3	37.9

B. Applicant Trends 1974-75 through 1985-86

In 1959, the earliest year for which data is available, there were 1,280 applications reported by 10 of the 13 schools of public health (including two Canadian schools). By Fall of 1974, when ASPH started to collect data on the schools, there were almost 10,000 applications reported for 19 [U.S.] schools. Applications peaked at 13,000 in Fall of 1978 and then began to decline rather rapidly. From 1978 to 1983 total applications declined by over 23%. Applications for 23 schools in Fall 1983 (9,998) were at the same level as applications for 19 schools (9,916) ten years earlier. Since 1982, total applications have leveled off at about 10,000 per year.

There have been some significant demographic changes in applicants over the past twelve years. The proportion of female applicants has increased from 43% in 1974 to 59% in 1985. Among U.S. applicants, the proportion of females is even higher. The proportion of foreign applicants has increased from 12% in 1974 to almost 21% in 1985. Although the number of foreign applicants has also increased over the years, much of the percentage change is due to the decline in the number of U.S. applicants.

Data on race of U.S. applicants has only been collected since 1980. In that year about 22% of the U.S. applicants were minorities; that percentage was only slightly higher (23%) in 1985. The actual number of minority applicants decreased along with the number of white applicants, from 1,896 in 1980 to 1,426 in 1983. In Fall 1985 the number of minority applicants was 1,536.

There appear to have been some slight shifts in areas of specialization of applicants over the years, although overall the areas have tended to remain stable. There have been slight increases in the proportion of applicants in epidemiology and health education/behavioral sciences, and decreases in health administration and nutrition. Areas tend to fluctuate up and down and there are always some classification problems, so it is difficult to make confident statements about changes unless the changes are dramatic. This has not been the case with any of the ASPH databases on areas, and the most significant fact regarding areas is that they have remained remarkably stable over the past twelve years.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF APPLICANTS
(Fall Semester)

Applicants by Citizenship and Total Applicants

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1959						1280
1960						1594
1961						2274
1962						2376
1963						2884
1964						3591
1965						4026
1966						4109
1967						4709
1968						5215
1969						5999
1974	8744	88.3%	1162	11.7%	10	9916
1975	8703	88.1	1170	11.9	907	10780
1976	10018	87.5	1436	12.5	838	12292
1977	10891	88.6	1395	11.4	40	12326
1978[1]	10577	86.8	1606	13.2	817	13000
1980[2]	10070	84.6	1828	15.4	0	11898
1981	9327	84.3	1743	15.7	8	11078
1982[3]	7942	82.2	1714	17.8	365	10021
1983	7339	80.1	1827	19.9	832	9998
1984	7586	80.7	1810	19.3	723	10119
1985	7451	79.3	1944	20.7	720	10115

Applicants by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1974	5417	56.6%	4155	43.4%	344	9916
1975	5394	54.7	4469	45.3	917	10780
1976	5893	51.6	5522	48.4	877	12292
1977	5929	51.3	5625	48.7	772	12326
1978	5880	48.3	6288	51.7	832	13000
1980	5330	44.9	6547	55.1	21	11898
1981	4683	42.3	6383	57.7	12	11078
1982	4221	42.7	5658	57.3	142	10021
1983	4005	41.5	5636	58.5	357	9998
1984	3828	40.2	5698	59.8	593	10119
1985	3926	40.9	5680	59.1	509	10115

1 Puerto Rico did no report in 1978.
2 Minnesota did not report in 1980 and 1981.
3 San Diego did not report in 1982.
No applicant data was collected in 1979. Data for 1959-1969 from Dr. James Troupin and includes two Canadian schools.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF APPLICANTS (Continued)

U.S. Applicants by Race

					HISPANIC											
YEAR	ASIAN		BLACK		PUERTO RICO		MAINLAND		AMERIND		WHITE		UNKNOWN	TOTAL
1980	436	5.2%	824	9.8%	149	1.8%	374	4.5%	113	1.3%	6500	77.4%	1674	10070
1981	481	5.9	760	9.3	277	3.4	257	3.1	88	1.1	6334	77.2	1130	9327
1982	350	5.6	624	9.9	287	4.6	184	2.9	60	1.0	4774	76.0	1663	7942
1983	327	5.1	573	9.0	280	4.4	192	3.0	54	0.9	4941	77.6	972	7339
1984	503	7.5	595	8.8	278	4.1	216	3.2	56	0.8	5093	75.6	845	7586
1985	444	6.7	550	8.3	289	4.3	198	3.0	55	0.8	5126	76.9	789	7451

Applicants by Area of Specialization

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC.		OS&H	
1974	449	4.7%	768	8.1%	3168	33.4%	885	9.3%	721	7.6%	1065	11.2%	63	0.7%
1975	425	4.2	951	9.3	3502	34.4	838	8.2	745	7.3	1039	10.2	155	1.5
1976	507	4.2	1472	12.1	4584	37.6	809	6.6	770	6.3	1214	10.0	138	1.1
1977	490	4.0	1563	12.9	4279	35.2	1023	8.4	678	5.6	1524	12.6	226	1.9
1978	464	4.0	1422	12.3	4337	37.8	839	7.3	743	6.5	1488	13.0	225	2.0
1980	392	3.3	1372	11.7	3558	30.4	1023	8.7	944	8.1	1385	11.8	328	2.8
1981	366	3.3	1302	11.7	2959.5	26.7	1005	9.1	906.5	8.2	1307	11.8	327	3.0
1983	444	4.6	1386	14.4	2903	30.0	786.5	8.1	834.5	8.6	1233	12.8	118.5	1.2
1984	432	4.6	1296	13.7	2816	29.7	800	8.4	927.5	9.8	1175.5	12.4	124	1.3
1985	393	4.1	1372.5	14.3	2797.5	29.3	829.5	8.7	963	10.1	1104.5	11.6	153	1.6

YEAR	NUTR		BIOMED		OTHER		NONSPEC		NON DEGREE	UNKNOWN	TOTAL
1974	458	4.8%	N/A		1503	15.8%	418	4.4%	N/A	418	9916
1975	503	4.9	282	2.8	884	8.7	864	8.5	N/A	592	10780
1976	581	4.7	366	3.0	1750	14.4	N/A		N/A	101	12292
1977	545	4.5	351	2.9	1171	9.6	291	2.4	N/A	185	12326
1978	621	5.4	251	2.2	1096	9.5	N/A		N/A	1514	13000
1980	678	5.8	356	3.0	1686	14.4	N/A		N/A	176	11898
1981	436.5	3.9	443	4.0	2025.5	18.3	N/A		N/A	0	11078
1983	391	4.1	319	3.3	937.5	9.7	309	3.2	244	92	9998
1984	406	4.3	331	3.5	859	9.1	306	3.2	350	296	10119
1985	353	3.7	319	3.3	936	9.8	331	3.5	456	107	10115

No data on areas was collected in 1979 or 1982.
Beginning in 1981 applicants with dual specializations are counted as .5 in each area.
Until 1983 nondegree applicants were counted under their area of specialization or under nonspecialized.

TOTAL APPLICATIONS
U.S. SCHOOLS OF PUBLIC HEALTH
(Fall Semester)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
ALA	*	*	*	*	46		116	98	60	100	81	121
BOSTON	*	*	*	*	*		*	149	202	236	315	295
CAL-BERK	842	1022	1125	897	1084		874	835	652	714	669	671
CAL-UCLA	1238	1217	1097	795	930		1050	847	791	763	750	727
COLUMBIA	473	623	799	790	867		774	611	654	680	625	618
HARVARD	549	812	869	791	947		972	866	740	626	734	730
HAWAII	276	313	385	388	343		377	386	319	263	196	241
ILL	203	255	365	287	371		352	376	143	121	261	320
JHU	758	938	1129	1176	1292		1272	1326	1249	1235	1123	1138
L.LINDA	194	198	265	260	245		212	376	174	145	177	185
MASS	190	195	236	235	310		259	262	265	219	170	192
MICH	1057	1273	1159	1112	1113		1153	1056	761	763	768	733
MINN	716	679	753	947	800		**	**	645	453	433	426
N.CAR	1001	1026	1268	1506	1464		1449	1347	1083	1057	1159	942
OKLA	120	146	205	266	256		205	116	112	195	147	153
PITT	615	603	748	611	782		557	636	492	495	530	493
PR	492	221	96	178	**		160	300	312	295	301	289
S.CAR	*	*	*	67	111		165	162	102	189	231	249
S.DIEGO	*	*	*	*	*		*	*	**	164	187	226
TEXAS	441	386	473	765	618		576	445	368	339	360	367
TULANE	179	134	453	455	546		572	143	356	368	347	312
WASH	261	338	383	412	450		446	376	250	322	287	345
YALE	311	401	484	388	425		357	365	291	241	268	342
TOTAL	9,916	10,780	12,292	12,326	13,000		11,898	11,078	10,021	9,983	10,119	10,115
***	8,708	9,880	11,443	11,134	12,043		11,457	10,369	8,700	8,546	8,571	8,507
		+13%	+16%	-3%	+8%		-5%	-10%	-16%	-2%	+0.3%	-0.7%

DATA NOT AVAILABLE

* Indicates school not yet in operation.
** Indicates missing data.
*** Trends for 17 schools with complete data for all years.

U.S. SCHOOLS OF PUBLIC HEALTH
TRENDS IN APPLICATIONS/ACCEPTANCES/ENROLLMENTS*

YEAR	NO. OF SCHOOLS	NUMBER OF APPLICATIONS	NUMBER ACCEPTED	PERCENT ACCEPTED	NEW ENROLLMENTS	AS % OF ACCEPTANCES	AS % OF APPLICATIONS
1961-62	14	2,274	1,465	64.4	.	.	.
1965-66	15	4,026	2,543	63.2	1,797	70.7	44.6
1967-68	17	4,709	2,682	57.0	1,947	72.6	41.3
1969-70	18	5,999	3,321	55.4	2,317	69.8	38.6
1974-75	17	8,708	.	.	2,715	.	31.2
1976-77	17	11,443	.	.	3,051	.	26.7
1978-79	17	12,043	.	.	3,391	.	28.2
1981-82	17	10,369	5,217	50.3	.	.	.
1983-84	17	8,561	5,352	62.5	2,825	52.8	33.0
1985-86	17	8,509	5,314	62.5	3,021	56.8	35.5

* ASPH data (1974-1985) for 17 schools with data for years included. 1960s data from Dr. James Troupin includes two Canadian schools.

II. NEW ENROLLMENTS, FALL 1985

There were 3,836 new enrollments in the 23 schools for Fall 1985, about the same level as Fall 1984 (3,812). New enrollments represented over 40% of the total enrollment in the schools (43% in 1984).

The proportion of new female students was over 61%, and foreign students represented over 16% of new enrollments. The number and proportion of new minority students increased slightly in 1985 (535 or 19.8% compared to 515 or 19.1% in 1984).

The area of specialization for new enrollments in Fall 1985 was approximately the same as that for total students.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF NEW ENROLLMENTS
Fall 1985

SEX & CITIZENSHIP					
MALES	1479	38.6%	U.S.	3029	83.5%
FEMALES	2357	61.4	FOREIGN	600	16.5
UNKNOWN	-	-	UNKNOWN	207	-
TOTAL	3836	100.0%	TOTAL	3836	100.0%
U.S. MALES	1089	36.0%	FOR.MALES	336	56.0%
U.S. FEMALES	1940	64.0	FOR.FEMALES	264	44.0
UNKNOWN	-	-	UNKNOWN	-	-
TOTAL	3029	100.0%	TOTAL	600	100.0%

RACE (U.S.)	MALES	FEMALES	TOTAL	
ASIAN	55	91	146	5.4%
BLACK	61	122	183	6.8
HISPANIC	67	113	180	6.6
AMERIND	15	11	26	1.0
(TOTAL MIN.)	(198)	(337)	(535)	(19.8)
WHITE	791	1378	2169	80.2
UNKNOWN	100	225	325	-
TOTAL	1089	1940	3029	100.0%

AREA OF SPECIALIZATION		
BIOSTAT	154.5	4.5%
EPID	477.0	14.1
HSA	944.0	27.9
PHP&PM	326.5	9.6
H.EDUC/BS	331.5	9.8
ENV.SC	421.5	12.4
OS&H	64.5	1.9
NUTR	104.0	3.1
BIOMED	87.0	2.6
OTHER	323.5	9.6
NONSPEC	152.0	4.5
NONDEGREE	389.0	-
UNKNOWN	61.0	-
TOTAL	3836.0	100.0%

TABLE 2-1
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1985

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	38.0	58.0	.0	96.0
BOSTON	48.0	122.0	.0	170.0
CAL-BERK	59.0	155.0	.0	214.0
CAL-UCLA	62.0	134.0	.0	196.0
COLUMBIA	77.0	196.0	.0	273.0
HARVARD	121.0	115.0	.0	236.0
HAWAII	43.0	79.0	.0	122.0
ILL	61.0	142.0	.0	203.0
JHU	162.0	195.0	.0	357.0
L.LINDA	30.0	40.0	.0	70.0
MASS	13.0	26.0	.0	39.0
MICH	93.0	126.0	.0	219.0
MINN	68.0	116.0	.0	184.0
N.CAR	103.0	179.0	.0	282.0
OKLA	37.0	51.0	.0	88.0
PITT	66.0	107.0	.0	173.0
PR	29.0	83.0	.0	112.0
S.CAR	57.0	85.0	.0	142.0
S.DIEGO	43.0	68.0	.0	111.0
TEXAS	71.0	62.0	.0	133.0
TULANE	100.0	71.0	.0	171.0
WASH	59.0	74.0	.0	133.0
YALE	39.0	73.0	.0	112.0
Total	1479.0	2357.0	.0	3836.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	89.0	7.0	.0	96.0
BOSTON	93.0	10.0	67.0	170.0
CAL-BERK	191.0	23.0	.0	214.0
CAL-UCLA	156.0	40.0	.0	196.0
COLUMBIA	255.0	18.0	.0	273.0
HARVARD	174.0	62.0	.0	236.0
HAWAII	92.0	30.0	.0	122.0
ILL	58.0	5.0	140.0	203.0
JHU	241.0	116.0	.0	357.0
L.LINDA	55.0	15.0	.0	70.0
MASS	35.0	4.0	.0	39.0
MICH	192.0	27.0	.0	219.0
MINN	171.0	13.0	.0	184.0
N.CAR	242.0	40.0	.0	282.0
OKLA	82.0	6.0	.0	88.0
PITT	157.0	16.0	.0	173.0
PR	104.0	8.0	.0	112.0
S.CAR	130.0	12.0	.0	142.0
S.DIEGO	102.0	9.0	.0	111.0
TEXAS	120.0	13.0	.0	133.0
TULANE	79.0	92.0	.0	171.0
WASH	118.0	15.0	.0	133.0
YALE	93.0	19.0	.0	112.0
Total	3029.0	600.0	207.0	3836.0

TABLE 2-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. NEW ENROLLMENTS BY SCHOOL & RACE
FALL 1985

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTALMIN.
ALA	.0	14.0	.0	.0	14.0
BOSTON	.0	5.0	1.0	.0	6.0
CAL-BERK	13.0	12.0	9.0	4.0	38.0
CAL-UCLA	21.0	13.0	16.0	3.0	53.0
COLUMBIA	.0	.0	.0	.0	.0
HARVARD	17.0	12.0	4.0	.0	33.0
HAWAII	36.0	3.0	.0	2.0	41.0
ILL	1.0	5.0	.0	.0	6.0
JHU	10.0	17.0	6.0	.0	33.0
L.LINDA	.0	1.0	1.0	.0	2.0
MASS	.0	.0	.0	.0	.0
MICH	9.0	13.0	4.0	3.0	29.0
MINN	3.0	.0	.0	1.0	4.0
N.CAR	6.0	20.0	3.0	3.0	32.0
OKLA	.0	8.0	5.0	7.0	20.0
PITT	5.0	13.0	.0	2.0	20.0
PR	.0	.0	104.0	.0	104.0
S.CAR	2.0	14.0	2.0	.0	18.0
S.DIEGO	7.0	1.0	6.0	.0	14.0
TEXAS	5.0	14.0	4.0	.0	23.0
TULANE	1.0	9.0	5.0	.0	15.0
WASH	4.0	1.0	3.0	1.0	9.0
YALE	6.0	8.0	7.0	.0	21.0
Total	146.0	183.0	180.0	26.0	535.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	75.0	.0	89.0
BOSTON	86.0	1.0	93.0
CAL-BERK	153.0	.0	191.0
CAL-UCLA	80.0	23.0	156.0
COLUMBIA	.0	255.0	255.0
HARVARD	129.0	12.0	174.0
HAWAII	47.0	4.0	92.0
ILL	52.0	.0	58.0
JHU	208.0	.0	241.0
L.LINDA	53.0	.0	55.0
MASS	24.0	11.0	35.0
MICH	156.0	7.0	192.0
MINN	167.0	.0	171.0
N.CAR	210.0	.0	242.0
OKLA	62.0	.0	82.0
PITT	137.0	.0	157.0
PR	.0	.0	104.0
S.CAR	111.0	1.0	130.0
S.DIEGO	78.0	10.0	102.0
TEXAS	97.0	.0	120.0
TULANE	63.0	1.0	79.0
WASH	109.0	.0	118.0
YALE	72.0	.0	93.0
Total	2169.0	325.0	3029.0

TABLE 2-3
U.S. SCHOOLS OF PUBLIC HEALTH
NEW ENROLLMENTS BY AREA, SEX & CITIZENSHIP
FALL 1985

AREA	MALE	FEMALE	UNKNOWN	TOTAL
BIOSTAT	62.0	92.5	.0	154.5
EPID	228.0	249.0	.0	477.0
HSA	347.0	597.0	.0	944.0
PHP&PM	77.0	249.5	.0	326.5
H.EDUC/BS	78.0	253.5	.0	331.5
ENV.SC	249.0	172.5	.0	421.5
OS&H	47.0	17.5	.0	64.5
NUTR	9.0	95.0	.0	104.0
BIOMED	47.0	40.0	.0	87.0
OTHER	120.0	203.5	.0	323.5
NONSPEC	73.0	79.0	.0	152.0
NONDEGREE	118.0	271.0	.0	389.0
UNKNOWN	24.0	37.0	.0	61.0
Total	1479.0	2357.0	.0	3836.0

AREA	U.S.	FOREIGN	UNKNOWN	TOTAL
BIOSTAT	100.5	54.0	.0	154.5
EPID	368.5	108.5	.0	477.0
HSA	846.0	98.0	.0	944.0
PHP&PM	275.0	51.5	.0	326.5
H.EDUC/BS	298.0	33.5	.0	331.5
ENV.SC	372.5	49.0	.0	421.5
OS&H	63.5	1.0	.0	64.5
NUTR	97.0	7.0	.0	104.0
BIOMED	58.0	29.0	.0	87.0
OTHER	225.0	98.5	.0	323.5
NONSPEC	125.0	27.0	.0	152.0
NONDEGREE	154.0	28.0	207.0	389.0
UNKNOWN	46.0	15.0	.0	61.0
Total	3029.0	600.0	207.0	3836.0

AREA	U.S.MALES	U.S.FEMALES	FOR.MALES	FOR.FEMALES
BIOSTAT	41.0	59.5	21.0	33.0
EPID	164.0	204.5	64.0	44.5
HSA	297.0	549.0	50.0	48.0
PHP&PM	50.0	225.0	27.0	24.5
H.EDUC/BS	63.0	235.0	15.0	18.5
ENV.SC	213.0	159.5	36.0	13.0
OS&H	46.0	17.5	1.0	.0
NUTR	9.0	88.0	.0	7.0
BIOMED	29.0	29.0	18.0	11.0
OTHER	63.0	162.0	57.0	41.5
NONSPEC	57.0	68.0	16.0	11.0
NONDEGREE	44.0	110.0	20.0	8.0
UNKNOWN	13.0	33.0	11.0	4.0
Total	1089.0	1940.0	336.0	264.0

TABLE 2-4
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. NEW ENROLLMENTS BY AREA & RACE
FALL 1985

AREA	ASIAN	BLACK	HISPANIC	AMERIND
BIOSTAT	9.0	4.0	2.0	.0
EPID	18.0	26.0	12.0	1.0
HSA	32.0	59.5	45.0	9.0
PHP&PM	11.0	16.5	14.0	2.0
H.EDUC/BS	15.0	11.5	28.0	3.0
ENV.SC	11.0	20.0	32.0	3.0
OS&H	4.0	1.5	.0	.0
NUTR	4.0	11.0	14.0	1.0
BIOMED	7.0	2.0	1.0	2.0
OTHER	14.0	13.0	15.0	3.0
NONSPEC	9.0	8.0	5.0	.0
NONDEGREE	11.0	10.0	12.0	1.0
UNKNOWN	1.0	.0	.0	1.0
Total	146.0	183.0	180.0	26.0

AREA	WHITE	UNKNOWN	TOTAL
BIOSTAT	81.5	4.0	100.5
EPID	287.5	24.0	368.5
HSA	617.5	83.0	846.0
PHP&PM	223.5	8.0	275.0
H.EDUC/BS	222.5	18.0	298.0
ENV.SC	281.5	25.0	372.5
OS&H	57.0	1.0	63.5
NUTR	66.0	1.0	97.0
BIOMED	46.0	.0	58.0
OTHER	145.0	35.0	225.0
NONSPEC	71.0	32.0	125.0
NONDEGREE	46.0	74.0	154.0
UNKNOWN	24.0	20.0	46.0
Total	2169.0	325.0	3029.0

III. STUDENTS

A. Fall 1985 Students

There were 9,494 students enrolled in the 23 schools in Fall 1985, a 6% increase over Fall 1984. Of this total, 60% were female, 15% were foreign, and over 17% of the U.S. students were members of minority groups. Tables 3-1 and 3-2 show demographic breakdowns of students by school. There were some significant differences among schools regarding the demographic characteristics of their student bodies. For example, Tulane and Lomda Linda had particularly high percentages of foreign enrollments, while other schools had few foreign students. There were also some significant differences in the proportion of male/female and minority students by school.

ASPH no longer collects data on age of students. However, a survey of 1986 graduates, conducted in early 1987, revealed a median age of 31-32 years. Therefore, it is reasonable to assume that in 1985 the median age for students was about 30-31 years of age.

Almost half (47%) of the students were enrolled in MPH programs and 69% were in master's degree programs. Twenty-one percent were in doctoral degree programs and almost 10% were nondegree students. Table 3-3 shows differences in degree programs based on demographic characteristics. A higher proportion of males (24%) pursue doctorates than females (19%), and a higher proportion of foreign students (26%) pursue doctorates than U.S. students (21%). In 1985 22% of the White students were pursuing doctorates compared to Asian (17%), Black (17%), Hispanic (19% - see Table 3-11) or American Indian students (14%).

Data on joint degrees (Tables 3-5 and 3-6), other than the MD-MPH, has been collected by ASPH since 1983. Over 35% of the joint degrees were joint MD degrees, and almost 17% were joint MBA degrees. About half (51%) of the joint degrees were sought by students in health services administration.

Over one-half of the students were enrolled in three program areas. Health services administration is the largest program area in schools of public health and had over 28% of the students; environmental sciences had 13% of the students and epidemiology had 14%.

There were some differences in program area based on demographic characteristics (Tables 3-7, 3-8, 3-11). Women were represented more in public health practice, health education and nutrition than men and less in environmental sciences and occupational health. Foreign students were represented more in other areas, principally international health and population, and less in health services administration than U.S. students. Asian students had more

representation in biostatistics (almost 10%); Blacks (38%) and American Indians (49%) were represented more in health services administration. Hispanic students at Puerto Rico were represented more in health education (18%), environmental sciences (28%) and nutrition (16%), while mainland Hispanic students were represented more in health education (16%) and other (16%) areas.

The areas with the largest proportion of doctoral students (Table 3-10) were biomedical sciences (52%), biostatistics (41%), epidemiology (37%), and environmental sciences (32%).

Almost one-third (32%) of the Fall 1985 students were part-time. The proportion of part-time students varied greatly among schools (Table 3-13), and some schools had a majority of part-time students. There was some variation based on area (Table 3-12), with proportionately fewer part-time students in biomedical sciences and nonspecialized areas.

ASPH began to collect data on students in nontraditional programs in 1983. A number of the schools have extended degree or other nontraditional programs or programs at locations away from the main campus. Seven schools provided data for 1985 (see Table 3-13). In Fall 1985 almost 7% of the students were enrolled in nontraditional programs.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF STUDENTS
Fall 1985

SEX & CITIZENSHIP					
MALES	3769	39.7%	U.S.	7942	84.9%
FEMALES	5725	60.3	FOREIGN	1410	15.1
UNKNOWN	-	-	UNKNOWN	142	-
TOTAL	9494	100.0%	TOTAL	9494	100.0%
U.S. MALES	2883	36.3%	FOR.MALES	843	59.8%
U.S. FEMALES	5059	63.7	FOR.FEMALES	567	40.2
UNKNOWN	-	-	UNKNOWN	-	-
TOTAL	7942	100.0%	TOTAL	1410	100.0%

RACE (U.S.)	MALES	FEMALES	TOTAL	
ASIAN	108	196	304	4.2%
BLACK	142	291	433	6.0
HISPANIC	147	305	452	6.2
AMERIND	36	27	63	0.9
(TOTAL MIN.)	(433)	(819)	(1252)	(17.3)
WHITE	2226	3766	5992	82.7
UNKNOWN	224	474	698	-
TOTAL	2883	5059	7942	100.0%

STATUS		
FULL-TIME	5838	61.5%
PART-TIME	3016	31.8
OTHER	640	6.7
UNKNOWN	-	-
TOTAL	9494	100.0%

AREA OF SPECIALIZATION					
BIOSTAT	474.5	5.5%	NUTR	282.5	3.3%
EPID	1236.5	14.4	BIOMED	275.0	3.2
HSA	2431.0	28.4	OTHER	720.0	8.4
PHP&PM	595.0	7.0	NONSPEC	339.0	4.0
H.EDUC/BS	856.0	10.0	NONDEGREE	914.0	-
ENV.SC	1116.0	13.0	UNKNOWN	15.0	-
OS&H	239.5	2.8	TOTAL	9494.0	100.0%

DEGREE OBJECTIVE					
MPH	4461	47.0%	PhD	1057	11.1%
MS	911	9.6	OTHER DOCT.	80	0.8
MSPH	311	3.3	JOINT DEGREE	121	1.3
MHA/MHSA	422	4.4	NONDEGREE	914	9.6
OTHER MASTERS	344	3.6	TOTAL	9494	100.0%
DrPH	612	6.5	TOTAL MASTERS	6570	69.2%
ScD	261	2.8	TOTAL DOCT.	2010	21.2%

TABLE 3-1
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL, SEX & CITIZENSHIP
FALL 1985

SCHOOL	MALE		FEMALE		UNKNOWN	TOTAL
ALA	118.0	47.6%	130.0	52.4%	.0	248.0
BOSTON	90.0	26.9	245.0	73.1	.0	335.0
CAL-BERK	148.0	30.7	334.0	69.3	.0	482.0
CAL-UCLA	208.0	36.6	361.0	63.4	.0	569.0
COLUMBIA	139.0	27.5	367.0	72.5	.0	506.0
HARVARD	194.0	46.1	227.0	53.9	.0	421.0
HAWAII	80.0	33.8	157.0	66.2	.0	237.0
ILL	103.0	31.2	227.0	68.8	.0	330.0
JHU	376.0	44.0	479.0	56.0	.0	855.0
L.LINDA	224.0	48.1	242.0	51.9	.0	466.0
MASS	48.0	34.8	90.0	65.2	.0	138.0
MICH	260.0	41.9	360.0	58.1	.0	620.0
MINN	146.0	36.0	259.0	64.0	.0	405.0
N.CAR	295.0	40.5	433.0	59.5	.0	728.0
OKLA	135.0	48.4	144.0	51.6	.0	279.0
PITT	221.0	40.0	331.0	60.0	.0	552.0
PR	69.0	24.9	208.0	75.1	.0	277.0
S.CAR	131.0	42.5	177.0	57.5	.0	308.0
S.DIEGO	61.0	33.5	121.0	66.5	.0	182.0
TEXAS	209.0	44.7	259.0	55.3	.0	468.0
TULANE	251.0	58.1	181.0	41.9	.0	432.0
WASH	171.0	44.8	211.0	55.2	.0	382.0
YALE	92.0	33.6	182.0	66.4	.0	274.0
Total	3769.0	39.7%	5725.0	60.3%	.0	9494.0

SCHOOL	U.S.		FOREIGN		UNKNOWN	TOTAL
ALA	214.0	86.3%	34.0	13.7%	.0	248.0
BOSTON	313.0	93.4	22.0	6.6	.0	335.0
CAL-BERK	442.0	91.7	40.0	8.3	.0	482.0
CAL-UCLA	465.0	81.7	104.0	18.3	.0	569.0
COLUMBIA	466.0	92.1	40.0	7.9	.0	506.0
HARVARD	332.0	78.9	89.0	21.1	.0	421.0
HAWAII	183.0	77.2	54.0	22.8	.0	237.0
ILL	167.0	87.9	23.0	12.1	140.0	330.0
JHU	643.0	75.2	212.0	24.8	.0	855.0
L.LINDA	309.0	66.3	157.0	33.7	.0	466.0
MASS	135.0	98.5	2.0	1.5	1.0	138.0
MICH	529.0	85.5	90.0	14.5	1.0	620.0
MINN	371.0	91.6	34.0	8.4	.0	405.0
N.CAR	641.0	88.0	87.0	12.0	.0	728.0
OKLA	263.0	94.3	16.0	5.7	.0	279.0
PITT	512.0	92.8	40.0	7.2	.0	552.0
PR	267.0	96.4	10.0	3.6	.0	277.0
S.CAR	277.0	89.9	31.0	10.1	.0	308.0
S.DIEGO	167.0	91.8	15.0	8.2	.0	182.0
TEXAS	408.0	87.2	60.0	12.8	.0	468.0
TULANE	236.0	54.6	196.0	45.4	.0	432.0
WASH	349.0	91.4	33.0	8.6	.0	382.0
YALE	253.0	92.3	21.0	7.7	.0	274.0
Total	7942.0	84.9%	1410.0	15.1%	142.0	9494.0

TABLE 3-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. STUDENTS BY SCHOOL & RACE
FALL 1985

SCHOOL	ASIAN		BLACK		HISPANIC		AMERIND		TOTALMIN.	
ALA	4.0	1.9%	19.0	8.9%	2.0	0.9%	.0		25.0	11.7%
BOSTON	6.0	1.9	10.0	3.2	1.0	0.3	.0		17.0	5.4
CAL-BERK	28.0	6.3	27.0	6.1	22.0	5.0	8.0	1.8	85.0	19.2
CAL-UCLA	47.0	11.1	30.0	7.1	40.0	9.5	3.0	0.7	120.0	28.4
COLUMBIA	.0		.0		.0		.0		.0	
HARVARD	28.0	8.5	17.0	5.1	8.0	2.4	.0		53.0	16.0
HAWAII	62.0	35.2	4.0	2.3	1.0	0.5	4.0	2.3	71.0	40.3
ILL	3.0	1.8	17.0	10.2	2.0	1.2	.0		22.0	13.2
JHU	18.0	2.9	33.0	5.4	8.0	1.3	4.0	0.7	63.0	10.3
L.LINDA	12.0	3.9	18.0	5.8	14.0	4.6	.0		44.0	14.3
MASS	4.0	3.0	5.0	3.8	7.0	5.3	.0		16.0	12.1
MICH	14.0	3.6	26.0	6.6	7.0	1.8	5.0	1.3	52.0	13.3
MINN	5.0	1.4	4.0	1.1	.0		2.0	0.5	11.0	3.0
N.CAR	8.0	1.2	40.0	6.2	5.0	0.8	10.0	1.6	63.0	9.8
OKLA	7.0	2.7	36.0	13.7	8.0	3.0	21.0	8.0	72.0	27.4
PITT	17.0	3.3	27.0	5.3	3.0	0.6	1.0	0.2	48.0	9.4
PR	.0		.0		267.0	100.0	.0		267.0	100.0
S.CAR	2.0	0.7	30.0	10.8	2.0	0.7	1.0	0.4	35.0	12.6
S.DIEGO	5.0	3.1	5.0	3.1	10.0	6.3	.0		20.0	12.6
TEXAS	16.0	3.9	36.0	8.8	24.0	5.9	1.0	0.3	77.0	18.9
TULANE	.0		19.0	8.1	10.0	4.2	.0		29.0	12.3
WASH	11.0	3.2	5.0	1.4	7.0	2.0	3.0	0.9	26.0	7.5
YALE	7.0	2.7	25.0	9.9	4.0	1.6	.0		36.0	14.2
Total	304.0	4.2%	433.0	6.0%	452.0	6.2%	63.0	0.9%	1252.0	17.3%

SCHOOL	WHITE		UNKNOWN	TOTAL
ALA	189.0	88.3%	.0	214.0
BOSTON	296.0	94.6	.0	313.0
CAL-BERK	357.0	80.8	.0	442.0
CAL-UCLA	303.0	71.6	42.0	465.0
COLUMBIA	.0		466.0	466.0
HARVARD	279.0	84.0	.0	332.0
HAWAII	105.0	59.7	7.0	183.0
ILL	145.0	86.8	.0	167.0
JHU	548.0	89.7	32.0	643.0
L.LINDA	264.0	85.7	1.0	309.0
MASS	116.0	87.9	3.0	135.0
MICH	338.0	86.7	139.0	529.0
MINN	360.0	97.0	.0	371.0
N.CAR	578.0	90.2	.0	641.0
OKLA	191.0	72.6	.0	263.0
PITT	464.0	90.6	.0	512.0
PR	.0		.0	267.0
S.CAR	242.0	87.4	.0	277.0
S.DIEGO	139.0	87.4	8.0	167.0
TEXAS	331.0	81.1	.0	408.0
TULANE	207.0	87.7	.0	236.0
WASH	323.0	92.5	.0	349.0
YALE	217.0	85.8	.0	253.0
Total	5992.0	82.7%	698.0	7942.0

TABLE 3-3
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY DEGREE OBJECTIVE, SEX, CITIZENSHIP & RACE[1]
FALL 1985

DEGREEOBJ	MALE		FEMALE		U.S.		FOREIGN	
MPH	1633.0	43.3%	2828.0	49.4%	3845.0	48.4%	616.0	43.7%
MS	337.0	8.9	574.0	10.0	807.0	10.2	104.0	7.4
MSPH	150.0	4.0	161.0	2.8	265.0	3.3	46.0	3.3
MHA/MHSA	183.0	4.9	239.0	4.2	396.0	5.0	26.0	1.8
OTHER.MAST	113.0	3.0	231.0	4.0	312.0	3.9	32.0	2.3
DrPH	258.0	6.8	354.0	6.2	478.0	6.0	134.0	9.5
ScD	128.0	3.4	133.0	2.3	210.0	2.6	51.0	3.6
PhD	486.0	12.9	571.0	10.0	879.0	11.1	177.0	12.6
OTHER.DOC	49.0	1.3	31.0	0.5	71.0	0.9	9.0	0.6
JOINT.DEG	48.0	1.3	73.0	1.3	115.0	1.4	6.0	0.4
NONDEGREE	384.0	10.2	530.0	9.3	564.0	7.1	209.0	14.8
Total	3769.0	100.0%	5725.0	100.0%	7942.0	100.0%	1410.0	100.0%
% MASTERS[2]	65.4		71.7		72.3		58.9	
% DOCTORATES	24.4		19.0		20.6		26.3	

DEGREEOBJ	ASIAN		BLACK		HISPANIC[3]		AMERIND		WHITE	
MPH	153.0	50.3%	249.0	57.5%	133.0	29.4%	44.0	69.8%	2902.0	48.4%
MS	49.0	16.1	25.0	5.8	129.0	28.5	3.0	4.8	529.0	8.8
MSPH	4.0	1.3	26.0	6.0	5.0	1.1	1.0	1.6	229.0	3.8
MHA/MHSA	7.0	2.3	19.0	4.4	32.0	7.1	.0		333.0	5.6
OTHER.MAST	12.0	3.9	12.0	2.8	91.0	20.1	.0		194.0	3.2
DrPH	16.0	5.3	36.0	8.3	13.0	2.9	5.0	7.9	341.0	5.7
ScD	7.0	2.3	9.0	2.1	6.0	1.3	1.0	1.6	187.0	3.1
PhD	27.0	8.9	23.0	5.3	14.0	3.1	3.0	4.8	743.0	12.4
OTHER.DOC	2.0	0.7	4.0	0.9	2.0	0.4	.0		61.0	1.0
JOINT.DEG	3.0	1.0	3.0	0.7	.0		.0		69.0	1.2
NONDEGREE	24.0	7.9	27.0	6.2	27.0	6.0	6.0	9.5	404.0	6.7
Total	304.0	100.0%	433.0	100.0%	452.0	100.0%	63.0	100.0%	5992.0	100.0%
% MASTERS[2]	75.0		77.2		86.3		76.2		71.0	
% DOCTORATES	17.1		16.6		7.7		14.3		22.3	

[1] Excludes students of unknown sex, citizenship and race.
[2] Includes joint degrees based on SPH degree.
[3] See Table 3-11 for breakdown data on Hispanic students.

TABLE 3-4
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL & DEGREE OBJECTIVE
FALL 1985

	MPH	MS	MSPH	MHA/ MHSA	OTHER MASTERS	DrPH	ScD.	PhD	OTHER DOCT.	JOINT DEGREE	TOTAL	TOTAL[1] MASTERS		TOTAL[1] DOCT.		NON DEGREE	
ALA	155		17			19		3		4	248	176	71.0%	22	8.9%	50	20.1%
BOSTON	248						11			10	335	258	77.0	11	3.3	66	19.7
CAL-BERK	328	22			9	55		68			482	359	74.5	123	25.5		
CAL-UCLA	268	98				50		85	45	14	569	380	66.8	180	31.6	9	1.6
COLUMBIA	318	10				73				41	506	369	72.9	73	14.4	64	12.7
HARVARD	100	161			4	23	120			8	421	273	64.8	143	34.0	5	1.2
HAWAII	158	19				31		12			237	177	74.7	43	18.1	17	7.2
ILL	135	14				15		26			330	149	45.2	41	12.4	140	42.4
JHU	192	52			74	55	102	238			855	318	37.2	395	46.2	142	16.6
L.LINDA	220		8	40		17			17		466	268	57.5	34	7.3	164	35.2
MASS	9	47						19			138	56	40.6	19	13.8	63	45.6
MICH	288	65		91		23		110			620	444	71.6	133	21.5	43	6.9
MINN	220	58		51				52			405	329	81.2	52	12.9	24	5.9
N.CAR	289	37	172		23	76		131			728	521	71.6	207	28.4		
OKLA	199	30				9		41			279	229	82.1	50	17.9		
PITT	179			93	137	30	13	72			552	409	74.1	115	20.8	28	5.1
PR	24	118		29	94						277	265	95.7			12	4.3
S.CAR	112	18	73	21	3	14		27	18		308	227	73.7	59	19.2	22	7.1
S.DIEGO	182										182	182	100.0				
TEXAS	264	37				74		80			468	301	64.3	154	32.9	13	2.8
TULANE	206		41	50		34	15			44	432	341	79.0	49	11.3	42	9.7
WASH	155	125		47				45			382	327	85.6	45	11.8	10	2.6
YALE	212					14		48			274	212	77.4	62	22.6		
TOTAL	4461	911	311	422	344	612	261	1057	80	121	9494	6570	69.2	2010	21.2	914	9.6

[1] Includes joint degrees classified according to SPH degree.

TABLE 3-5
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY AREA, SEX & RACE[1]
FALL 1985

AREA	SUBAREA	JOINT DEGREE	MALE	FEMALE	TOTAL
EPID		MD-MPH	1.0	.0	1.0
EPID		MPH-PhD	.0	1.0	1.0
HSA		MD-MPH	3.0	3.0	6.0
HSA		MHA-MBA	2.0	.0	2.0
HSA		MPH-DDS	.0	1.0	1.0
HSA		MPH-DMD	.0	3.0	3.0
HSA		MPH-JD	1.0	1.0	2.0
HSA		MPH-MA	.0	1.0	1.0
HSA		MPH-MBA	8.0	10.0	18.0
HSA		MPH-MIA	.0	1.0	1.0
HSA		MPH-MPA	.0	2.0	2.0
HSA		MPH-MSN	.0	14.0	14.0
HSA		MPH-MSUP	1.0	4.0	5.0
HSA		MPH-MSW	2.0	5.0	7.0
PHP&PM	MCH	MPH-MSW	1.0	1.0	2.0
PHP&PM	MCH	MPH-PhD	.0	1.0	1.0
H.EDUC/BS		MPH-MSW	.0	4.0	4.0
ENV.SC		MPH-JD	.0	2.0	2.0
OTHER	POP/FAM.HLTH	MPH-MA	.0	3.0	3.0
OTHER	POP/FAM.HLTH	MPH-MIA	.0	3.0	3.0
OTHER	POP/FAM.HLTH	MPH-MSN	.0	2.0	2.0
OTHER	POP/FAM.HLTH	MPH-MSW	.0	2.0	2.0
NONSPEC		MD-MPH	27.0	9.0	36.0
NONSPEC		MPH-PhD	2.0	.0	2.0
Total			48.0	73.0	121.0

JOINT DEGREE	ASIAN	BLACK	HISPANIC	AMERIND	WHITE
MD-MPH	1.0	3.0	.0	.0	37.0
MHA-MBA	.0	.0	.0	.0	2.0
MPH-DDS	.0	.0	.0	.0	1.0
MPH-DMD	1.0	.0	.0	.0	.0
MPH-JD	.0	.0	.0	.0	3.0
MPH-MA	.0	.0	.0	.0	3.0
MPH-MBA	1.0	.0	.0	.0	11.0
MPH-MIA	.0	.0	.0	.0	.0
MPH-MPA	.0	.0	.0	.0	.0
MPH-MSN	.0	.0	.0	.0	.0
MPH-MSUP	.0	.0	.0	.0	.0
MPH-MSW	.0	.0	.0	.0	8.0
MPH-PhD	.0	.0	.0	.0	4.0
Total	3.0	3.0	.0	.0	69.0

[1] Racial breakdown excludes 6 foreign students and 40 U.S. students of unknown race.

TABLE 3-6
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY SCHOOL & CITIZENSHIP
FALL 1985

SCHOOL	JOINT DEGREE	TOTAL
ALA	MPH-PhD	4.0
BOSTON	MD-MPH	2.0
BOSTON	MPH-JD	1.0
BOSTON	MPH-MA	1.0
BOSTON	MPH-MSW	6.0
CAL-UCLA	MD-MPH	1.0
CAL-UCLA	MPH-DDS	1.0
CAL-UCLA	MPH-MA	3.0
CAL-UCLA	MPH-MBA	9.0
COLUMBIA	MD-MPH	2.0
COLUMBIA	MPH-MBA	5.0
COLUMBIA	MPH-MIA	4.0
COLUMBIA	MPH-MPA	2.0
COLUMBIA	MPH-MSN	16.0
COLUMBIA	MPH-MSUP	5.0
COLUMBIA	MPH-MSW	7.0
HARVARD	MD-MPH	5.0
HARVARD	MPH-DMD	3.0
TULANE	MD-MPH	33.0
TULANE	MHA-MBA	2.0
TULANE	MPH-JD	3.0
TULANE	MPH-MBA	4.0
TULANE	MPH-MSW	2.0
Total		121.0

JOINT DEGREE	U.S.	FOREIGN	TOTAL
MD-MPH	43.0	.0	43.0
MHA-MBA	2.0	.0	2.0
MPH-DDS	1.0	.0	1.0
MPH-DMD	1.0	2.0	3.0
MPH-JD	3.0	1.0	4.0
MPH-MA	4.0	.0	4.0
MPH-MBA	17.0	1.0	18.0
MPH-MIA	2.0	2.0	4.0
MPH-MPA	2.0	.0	2.0
MPH-MSN	16.0	.0	16.0
MPH-MSUP	5.0	.0	5.0
MPH-MSW	15.0	.0	15.0
MPH-PhD	4.0	.0	4.0
Total	115.0	6.0	121.0

TABLE 3-7
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY AREA, SEX, CITIZENSHIP & RACE[1]
FALL 1985

AREA	MALE		FEMALE		U.S.		FOREIGN	
BIOSTAT	218.0	6.4%	256.5	5.0%	355.5	4.8%	119.0	9.9%
EPID	521.5	15.4	715.0	13.8	1037.0	14.1	199.5	16.6
HSA	875.0	25.9	1556.0	30.0	2238.5	30.4	192.5	16.0
PHP&PM	144.0	4.3	451.0	8.7	490.5	6.7	104.5	8.7
H.EDUC/BS	215.5	6.4	640.5	12.4	775.0	10.5	81.0	6.8
ENV.SC	655.5	19.4	460.5	8.9	995.5	13.5	120.5	10.0
OS&H	151.0	4.5	88.5	1.7	223.5	3.0	16.0	1.3
NUTR	36.0	1.1	246.5	4.8	253.0	3.4	29.5	2.5
BIOMED	131.0	3.9	144.0	2.8	215.0	2.9	60.0	5.0
OTHER	283.5	8.4	436.5	8.4	475.5	6.5	243.5	20.3
NONSPEC	149.0	4.4	190.0	3.7	305.0	4.1	34.0	2.8
NONDEGREE	384.0	-	530.0	-	564.0	-	209.0	-
UNKNOWN	5.0	-	10.0	-	14.0	-	1.0	-
Total	3769.0	100.0%	5725.0	100.0%	7942.0	100.0%	1410.0	100.0%

AREA	ASIAN		BLACK		HISPANIC[2]		AMERIND		WHITE	
BIOSTAT	27.0	9.6%	12.0	3.0%	7.0	1.6%	3.0	5.3%	271.0	4.9%
EPID	43.5	15.5	62.5	15.4	25.0	5.9	5.0	8.8	812.5	14.6
HSA	69.5	24.8	155.5	38.3	96.0	22.6	28.0	49.1	1682.5	30.1
PHP&PM	15.0	5.4	31.5	7.8	15.0	3.5	1.0	1.8	417.0	7.5
H.EDUC/BS	29.5	10.5	49.5	12.2	77.5	18.2	9.0	15.8	574.5	10.3
ENV.SC	27.0	9.6	37.5	9.2	87.0	20.5	4.0	7.0	754.0	13.5
OS&H	6.5	2.3	7.5	1.8	1.0	0.2	.0		203.5	3.6
NUTR	9.0	3.2	15.0	3.7	49.5	11.6	1.0	1.8	170.5	3.1
BIOMED	17.0	6.1	5.0	1.2	6.0	1.4	2.0	3.5	180.0	3.2
OTHER	23.0	8.2	18.0	4.4	48.0	11.3	3.0	5.3	293.5	5.3
NONSPEC	13.0	4.6	12.0	3.0	13.0	3.1	1.0	1.8	224.0	4.0
NONDEGREE	24.0	-	27.0	-	27.0	-	6.0	-	404.0	-
UNKNOWN	.0	-	.0	-	.0	-	.0	-	5.0	-
Total	304.0	100.0%	433.0	100.0%	452.0	100.0%	63.0	100.0%	5992.0	100.0%

[1] Excludes students of unknown sex, citizenship, and race.
[2] See Table 3-11 for breakdown data on Hispanic students.

TABLE 3-8
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. STUDENTS BY AREA, SEX & RACE[1]
FALL 1985

MALES

AREA	ASIAN		BLACK		HISP		AMERIND		WHITE	
BIOSTAT	9.0	9.4%	4.0	3.0%	5.0	3.7%	2.0	6.5%	123.0	5.9%
EPID	23.0	24.0	23.5	17.5	13.0	9.6	2.0	6.5	300.5	14.5
HSA	19.0	19.8	47.5	35.5	39.0	28.7	16.0	51.6	597.0	28.7
PHP&PM	1.0	1.0	6.0	4.5	5.0	3.7	.0		74.0	3.6
H.EDUC/BS	8.0	8.3	16.0	11.9	20.0	14.7	8.0	25.8	120.5	5.8
ENV.SC	13.0	13.5	22.0	16.4	32.0	23.5	2.0	6.5	442.5	21.3
OS&H	2.0	2.1	5.0	3.7	.0		.0		127.0	6.1
NUTR	1.0	1.0	2.0	1.5	6.0	4.4	.0		19.0	0.9
BIOMED	6.0	6.3	2.0	1.5	1.0	0.7	1.0	3.2	86.0	4.1
OTHER	5.0	5.2	4.0	3.0	9.0	6.6	.0		80.5	3.9
NONSPEC	9.0	9.4	2.0	1.5	6.0	4.4	.0		107.0	5.2
NONDEGREE	12.0	-	8.0	-	11.0	-	5.0	-	148.0	-
UNKNOWN	.0	-	.0	-	.0	-	.0	-	1.0	-
Total	108.0	100.0%	142.0	100.0%	147.0	100.0%	36.0	100.0%	2226.0	100.0%

FEMALES

AREA	ASIAN		BLACK		HISP		AMERIND		WHITE	
BIOSTAT	18.0	9.8%	8.0	2.9%	2.0	0.7%	1.0	3.8%	148.0	4.2%
EPID	20.5	11.1	39.0	14.3	12.0	4.2	3.0	11.5	512.0	14.6
HSA	50.5	27.4	108.0	39.7	57.0	19.7	12.0	46.2	1085.5	31.0
PHP&PM	14.0	7.6	25.5	9.4	10.0	3.5	1.0	3.8	343.0	9.8
H.EDUC/BS	21.5	11.7	33.5	12.3	57.5	19.9	1.0	3.8	454.0	13.0
ENV.SC	14.0	7.6	15.5	5.7	55.0	19.0	2.0	7.7	311.5	8.9
OS&H	4.5	2.5	2.5	0.9	1.0	0.3	.0		76.5	2.2
NUTR	8.0	4.3	13.0	4.8	43.5	15.1	1.0	3.8	151.5	4.3
BIOMED	11.0	6.0	3.0	1.1	5.0	1.7	1.0	3.8	94.0	2.7
OTHER	18.0	9.8	14.0	5.2	39.0	13.5	3.0	11.5	213.0	6.1
NONSPEC	4.0	2.2	10.0	3.7	7.0	2.4	1.0	3.8	117.0	3.3
NONDEGREE	12.0	-	19.0	-	16.0	-	1.0	-	256.0	-
UNKNOWN	.0	-	.0	-	.0	-	.0	-	4.0	-
Total	196.0	100.0%	291.0	100.0%	305.0	100.0%	27.0	100.0%	3766.0	100.0%

[1] Excludes students of unknown sex and race.

TABLE 3.9
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY SCHOOL AND AREA
Fall 1985

	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/ BS		ENV.SC		OS&H		NUTR		BIOMED		OTHER		NONSPEC		NON DEGREE	UNKNOWN	TOTAL
ALA			34	17.5%			18	9.2%	11	5.6%	15	7.7%	17	8.7%	1	0.5%			34	17.5%	65	33.3%	50	3	268
BOSTON			55	20.4	140.5	52.2			34.5	12.8	39	14.5											66		335
CAL-BERK	33	6.9%	65	13.5	93	19.3	51	10.6	73	15.1	58	12.0			29	6.0	45	9.3%			35	7.3			482
CAL-UCLA	65	11.3	93	16.6	121	21.6			70	12.5	80	14.3			44	7.9			89	15.9			9		569
COLUMBIA	14	3.2	67	15.5	182	42.1			20	4.6	43	10.0							62	14.4	44	10.2	64	10	506
HARVARD	34	8.2	60	14.4	127	30.5	26	6.3	10	2.4	23	5.5	35	8.4	8	1.9	18	4.3	28	6.7	47	11.3	5		421
HAWAII	13	5.9	22	10.0	54	24.6	28	12.7	52	23.6	20	9.1			17	7.7			14	6.4			17		237
ILL	3	1.6	36	18.9	48	25.3	64	33.7			17	8.9	22	11.6									140		330
JHU	18	2.5	117	16.4	141	19.8	75	10.5	50	7.0	104	14.6					91	12.8	117	16.4			142		855
L.LINDA	5	1.7	12	4.0	52	17.2	17	5.6	114	37.7	25	8.3			14	4.6			16	5.3	47	15.6	104		466
MASS			17	23.3	29	39.7			13	17.8	14	19.2											63	2	138
MICH	29.5	5.1	74.5	12.9	176.5	30.6	22	3.8	48.5	8.4	97	16.8	43.5	7.5	17.5	3.0			68	11.8			43		620
MINN	27	7.1	55	14.4	63	16.5	115	30.2	39	10.2	69	18.1			13	3.4							24		405
N.CAR	86	11.8	77	10.6	183	25.1	55	7.6	72	9.9	139	19.1			71	9.8	45	6.2							728
OKLA	13	4.7	39	14.0	143	51.3			33	11.8	51	18.3													279
PITT	27	5.2	98	18.7	219	41.8					70	13.4	31	5.9			41	7.8	38	7.3			28		552
PR			7	2.6	54	20.4	7	2.6	49	18.5	75	28.3			45	17.0			18	6.8	10	3.8	12		277
S.CAR	7	2.4	44	15.4	73	25.5	2	0.7	95	33.2	60	21.0									5	1.8	22		308
S.DIEGO			29	15.9	54	29.7	32	17.6	37	20.3	19	10.4	11	6.0											182
TEXAS	24	5.3	36	7.9	64	14.1	63	13.9	22	4.8	35	7.7	45	9.9					125	27.5	41	9.0	13		468
TULANE	7	1.8	27	6.9	94	24.1	20	5.1	13	3.3	31	8.0			23	5.9	19	4.9	111	28.5	45	11.5	42		432
WASH	60	16.1	84	22.6	165	44.4					12	3.2	35	9.4			16	4.3					10		382
YALE	11	4.0	88	32.1	155	56.6					20	7.3													276
TOTAL	474.5	5.5	1236.5	14.4	2431	28.4	595	7.0	856	10.0	1116	13.0	239.5	2.8	282.5	3.3	275	3.2	720	8.4	359	4.0	914	15	9494

TABLE 3-10
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENTS BY AREA & DEGREE OBJECTIVE[1]
Fall 1985

	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/ BS	ENV.SCI
MPH	63	626	1350	428	534	351
MS	186	94	205	31	49	184
MSPH	15	38	82	1	7	126
MHA/MHSA			415	4		
OTHER MAST	17	17	20	9	52	91
DrPH	30	93	158	64	90	30
ScD	25	32	69	28	13	25
PhD	138.5	334.5	70	10	89	262
OTHER DOC				17	18	45
JOINT DEG		2	62	3	4	2
TOTAL	474.5	1236.5	2431	595	856	1116
% MASTERS	59.2	62.8	87.8	80.0	75.5	67.6
% DOCTORATES	40.8	37.2	12.2	20.0	24.5	32.4

	OS&H	NUTR	BIOMED	OTHER	NONSPEC	UNKNOWN
MPH	127.5	163.5	48	455	301	14
MS	50	22	28	61		1
MSPH	12		24	6		
MHA/MHSA				3		
OTHER MAST	20	45	31	42		
DrPH	13	32	20	82		
ScD	10	8	35	16		
PhD	7	12	89	45		
OTHER DOC						
JOINT DEG				10	38	
TOTAL	239.5	282.5	275	720	339	15
% MASTERS	87.5	81.6	47.6	80.1	100.0	100.0
% DOCTORATES	12.5	18.4	52.4	19.9	-	-

[1] Excludes nondegree students.

TABLE 3-11
U.S. SCHOOLS OF PUBLIC HEALTH
AREA & DEGREE OBJECTIVE FOR HISPANIC STUDENTS
FALL 1985

AREA	SUBAREA	MAINLAND U.S.		PUERTO RICO	
BIOSTAT		7.0	3.8%		
EPID		19.0	10.3	6.0	2.3%
HSA		42.0	22.7	54.0	20.2
PHP&PM	COMM.HLTH	3.0			
PHP&PM	MCH	5.0	4.9	6.0	2.3
PHP&PM	PH.NURSING	1.0			
H.EDUC/BS		30.0	16.2	48.0	18.0
ENV.SC		13.0	7.0	74.0	27.7
OS&H		1.0	0.5		
NUTR		7.0	3.8	42.0	15.7
BIOMED		6.0	3.2		
OTHER	DIS.CTRL	2.0			
OTHER	INTER.HLTH	10.0			
OTHER	POP/FAM.HLTH	9.0			
OTHER	POPULATION	1.0	16.2	18.0	6.7
OTHER	TROPICAL.PH	3.0			
OTHER	URBAN.HLTH	1.0			
OTHER		4.0			
NONSPEC		6.0	3.2	7.0	2.6
NONDEGREE		15.0	8.1	12.0	4.5
Total		185.0	100.0%	267.0	100.0%

DEGREEOBJ	MAINLAND U.S.		PUERTO RICO	
MPH	114.0	61.6%	19.0	7.1%
MS	12.0	6.5	117.0	43.8
MSPH	5.0	2.7		
MHA/MHSA	3.0	1.6	29.0	10.9
OTHER.MAST	1.0	0.5	90.0	33.7
DrPH	13.0	7.0		
ScD	6.0	3.2		
PhD	14.0	7.6		
OTHER.DOC	2.0	1.1		
NONDEGREE	15.0	8.1	12.0	4.5
Total	185.0	100.0%	267.0	100.0%
% MASTERS	73.0		95.5	
% DOCTORATES	18.9		-	

TABLE 3-12
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENT STATUS BY AREA & DEGREE OBJECTIVE
FALL 1985

DEGREEOBJ	F-T		P-T		OTHER		TOTAL
MPH	2723.0	61.0%	1306.0	29.3%	432.0	9.7%	4461.0
MS	648.0	71.1	243.0	26.7	20.0	2.2	911.0
MSPH	217.0	69.8	89.0	28.6	5.0	1.6	311.0
MHA/MHSA	319.0	75.6	92.0	21.8	11.0	2.6	422.0
OTHER.MAST	213.0	61.9	131.0	38.1	.0		344.0
DrPH	402.0	65.7	202.0	33.0	8.0	1.3	612.0
ScD	207.0	79.3	54.0	20.7	.0		261.0
PhD	710.0	67.2	347.0	32.8	.0		1057.0
OTHER.DOC	64.0	80.0	16.0	20.0	.0		80.0
JOINT.DEG	86.0	71.1	35.0	28.9	.0		121.0
NONDEGREE	249.0	27.2	501.0	54.8	164.0	18.0	914.0
Total	5838.0	61.5%	3016.0	31.8%	640.0	6.7%	9494.0

AREA	F-T		P-T		OTHER		TOTAL
BIOSTAT	351.0	74.0%	123.5	26.0%	.0		474.5
EPID	843.0	68.2	393.5	31.8	.0		1236.5
HSA	1475.0	60.7	735.0	30.2	221.0	9.1%	2431.0
PHP&PM	402.0	67.6	189.0	31.7	4.0	0.7	595.0
H.EDUC/BS	568.0	66.4	235.0	27.4	53.0	6.2	856.0
ENV.SC	696.5	62.4	390.5	35.0	29.0	2.6	1116.0
OS&H	150.5	62.8	73.0	30.5	16.0	6.7	239.5
NUTR	205.0	72.6	77.5	27.4	.0		282.5
BIOMED	225.0	81.8	50.0	18.2	.0		275.0
OTHER	509.0	70.7	166.0	23.1	45.0	6.2	720.0
NONSPEC	162.0	47.8	69.0	20.4	108.0	31.8	339.0
NONDEGREE	249.0	27.3	501.0	54.8	164.0	17.9	914.0
UNKNOWN	2.0	13.3	13.0	86.7	.0		15.0
Total	5838.0	61.5%	3016.0	31.8%	640.0	6.7%	9494.0

TABLE 3-13
U.S. SCHOOLS OF PUBLIC HEALTH
STUDENT STATUS BY SCHOOL
FALL 1985

SCHOOL	F-T		P-T		OTHER		TOTAL
ALA	65.0	26.2%	120.0	48.4%	63.0	25.4%	248.0
BOSTON	95.0	28.4	240.0	71.6	.0		335.0
CAL-BERK	482.0	100.0	.0	0	.0		482.0
CAL-UCLA	550.0	96.7	19.0	3.3	.0		569.0
COLUMBIA	265.0	52.4	241.0	47.6	.0		506.0
HARVARD	357.0	84.8	64.0	15.2	.0		421.0
HAWAII	169.0	71.3	68.0	28.7	.0		237.0
ILL	105.0	31.8	225.0	68.2	.0		330.0
JHU	719.0	84.1	136.0	15.9	.0		855.0
L.LINDA	110.0	23.6	83.0	17.8	273.0	58.6	466.0
MASS	76.0	55.1	62.0	44.9	.0		138.0
MICH	401.0	64.7	151.0	24.3	68.0	11.0	620.0
MINN	248.0	61.2	157.0	38.8	.0		405.0
N.CAR	486.0	66.8	171.0	23.4	71.0	9.8	728.0
OKLA	95.0	34.1	134.0	48.0	50.0	17.9	279.0
PITT	230.0	41.7	322.0	58.3	.0		552.0
PR	153.0	55.2	124.0	44.8	.0		277.0
S.CAR	158.0	51.3	150.0	48.7	.0		308.0
S.DIEGO	113.0	62.1	69.0	37.9	.0		182.0
TEXAS	148.0	31.6	279.0	59.6	41.0	8.8	468.0
TULANE	347.0	80.3	85.0	19.7	.0		432.0
WASH	239.0	62.6	69.0	18.0	74.0	19.4	382.0
YALE	227.0	82.8	47.0	17.2	.0		274.0
Total	5838.0	61.5%	3016.0	31.8%	640.0	6.7%	9494.0

B. Student Trends 1974-75 through 1985-86

In 1958 there were 11 schools of public health in the U.S. with a total enrollment of less than 1,200 students. The typical student of that time was a White male, about 33 years old, with a medical background, who was enrolled full-time in a one-year master's degree program and was receiving financial assistance from a government agency. Twenty-seven years later, in 1985, there were 23 schools with a total enrollment of over 9,000 students. The student body in the schools today is much more varied, and it is not really possible to describe a typical student. Total enrollment in schools of public health increased steadily through 1981, although the rate of growth slowed down after 1978. From 1981-84 enrollments leveled off at about 9,000 students. In 1985, total enrollment increased by 6%.

There have been a number of significant changes in student characteristics over the years. The proportion of women has steadily increased from 46% in 1974 to 60% in 1985. In 1958 only 29% of the students were women.

Foreign students represented nearly one-quarter of the student population in the late 1950s. Although their numbers continued to grow over the years, the large increase in U.S. enrollments tended to dwarf the foreign student increases, until foreign students represented less than 10% of the total student population by 1977. However, in the Fall of 1981 the number of foreign students nearly doubled (1299 vs. 730 reported in 1980). It is likely that due to some changes in the method of data collection, foreign students may have been underreported prior to 1981. However, this alone would not account for the increase. The number of foreign students remains high at 1,410 in 1985, or 15% of the total student population.

Data on minority students has been collected by ASPH since 1974; there is no information on race in the 1960s data. The number and proportion of minority students rose from 1974 until 1980 when there were 1,102 minority students (1,059 without Puerto Rico), and minority students represented 18.4% (17.7% without Puerto Rico) of the U.S. students. The overall number of minority students has been falling slightly although the increase in the student enrollment at Puerto Rico tends to confuse the data somewhat. In 1985 there were 1,252 minority students (985 without Puerto Rico) and they represented 17.3% (14.1% without Puerto Rico) of the U.S. students.

As noted previously, ASPH no longer collects information on age of students, but has recent graduate data. In 1958 the median age of students was 33 years. By 1974 the median age was about 27-1/2 and declined to 27 in 1976. Then it began to rise and in 1985 was estimated to be about 30-31 years.

The enrollment status of students has fluctuated over the years. In 1958 there were reportedly very few part-time students. By 1974 when the ASPH database began, over one-quarter (26%) of the students were part-time. The proportion of part-time students decreased steadily to 19% in 1979 and then began to rise quite dramatically. Since 1981 close to one-third of the students have been enrolled part-time. Another recent trend is an increase in the number of students enrolled in nontraditional programs. These programs are expected to continue to grow in the future.

Areas of specialization for students have remained quite stable over the past twelve years. Since the areas fluctuate somewhat it is difficult to see any long-term trends. Environmental sciences and epidemiology have grown fairly steadily while nutrition appears to be declining.

With regard to degree objective, there has been very little change since 1974. About 70% of the students pursue master's degrees and about 20% pursue doctorates. There has been some change in nondegree students over the years. In 1974 almost 7% of the students were nondegree students. This leveled off to about 3-4% during the late 1970s. Since 1981 there has been a significant increase in the number of nondegree students, and they now represent almost 10% of the total students.

Some very general summary comments can be made about student trends over the past twenty-seven years. From the "typical" student of the early 1960s described at the beginning of this section -- White male, early thirties, medically-trained -- the student population of the schools of public health has become very diverse. During the 1970s there was an influx of younger students from a variety of fields. These students overall had less prior education and less work experience. Part of this change was due to the increase in the number of female students, who generally have less prior education than male students, and the decrease in the proportion of foreign students who have more prior education and a very high proportion of MDs.

During the 1970s the schools began to expand their master's programs from one to two years. This was partly in response to changing student characteristics and partly in response to the knowledge explosion in public health. More schools also instituted doctoral programs, partly in response to the changing student characteristics (fewer students with prior doctorates) and partly in response to the belief that non-medical doctorates were also valid in public health.

During the 1980s the student population has again undergone changes. Although there is really no "typical" student anymore, there is a shift toward older, more experienced, employed students. The

proportion of students who receive financial assistance has declined over the years and this, coupled with the more conservative economic outlook characteristic of the 1980s, has had an impact on students. More students need to attend school part-time for financial reasons, and many others who live where there is no school nearby are reluctant to leave their jobs to return to school. One response from the schools has been to increase the number of part-time students they will accept, and another has been the initiation of off-campus, extended degree, and other nontraditional programs.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS
(Fall Semester)

Students by Sex

YEAR	MALE		FEMALE		UNKNOWN	TOTAL
1958 [1]	886	71.3%	356	28.7%	-	1242
1974 [2]	2673	53.7	2307	46.3	841	5821
1975	3163	52.5	2857	47.5	441	6461
1976	3181	51.5	3001	48.5	433	6615
1977	3233	50.3	3193	49.7	415	6841
1978	3367	47.6	3704	52.4	651	7722
1979	3397	46.2	3949	53.8	869	8215
1980	3023	44.8	3728	55.2	1735	8486
1981	3865	44.6	4800	55.4	382	9047
1982	3794	42.7	5101	57.3	1	8896
1983	3690	41.7	5152	58.3	95	8937
1984	3627	40.5	5329	59.5	1	8957
1985	3769	39.7	5725	60.3	-	9494

Students by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1958 [1]	950	76.5%	292	23.5%	-	1242
1974 [2]	5072	89.4	600	10.6	149	5821
1975	5415	90.3	582	9.7	464	6461
1976	5597	90.3	600	9.7	418	6615
1977	5804	90.2	634	9.8	403	6841
1978	6340	90.0	707	10.0	675	7722
1979	6532	89.3	782	10.7	901	8215
1980	6047	89.2	730	10.8	1709	8486
1981	7366	85.0	1299	15.0	382	9047
1982	7615	86.5	1190	13.5	91	8896
1983	7617	86.3	1212	13.7	108	8937
1984	7641	86.6	1180	13.4	136	8957
1985	7942	84.9	1410	15.1	142	9494

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1 Data for 1958 from Dr. James Troupin and includes two Canadian schools.

2 Puerto Rico did not report in 1974 and only reported total enrollment in 1978 and 1979.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

U.S. Students by Race

YEAR	ASIAN	BLACK	HISPANIC PUERTO RICO	HISPANIC MAINLAND	AMERIND	WHITE	UNKNOWN	TOTAL
1974	156 3.5%	351 7.8%	N/A	76 1.7%	49 1.1%	3883 86.0%	557	5072
1975	218 4.1	348 6.6	197 3.7%	112 2.1	59 1.1	4334 82.3	147	5415
1976	N/A	N/A	N/A	N/A	N/A	N/A	5597	5597
1977	N/A	N/A	N/A	N/A	N/A	N/A	5804	5804
1978	N/A	N/A	N/A	N/A	N/A	N/A	6340	6340
1979	408 6.3	415 6.4	N/A	173 2.7	68 1.0	5421 83.6	47	6532
1980	393 6.6	379 6.3	43 0.7	199 3.3	88 1.5	4892 81.6	53	6047
1981	335 5.2	376 5.8	130 2.0	141 2.2	82 1.3	5440 83.6	862	7366
1982	368 5.3	403 5.8	183 2.6	176 2.5	70 1.0	5805 82.9	610	7615
1983	313 4.5	357 5.2	217 3.1	171 2.5	59 0.9	5794 83.8	706	7617
1984	302 4.3	368 5.2	223 3.2	169 2.4	54 0.8	5900 84.1	625	7641
1985	304 4.2	433 6.0	277 3.8	175 2.4	63 0.9	5992 82.7	698	7942

Students by Status

YEAR	FULL-TIME	PART-TIME	OTHER	UNKNOWN	TOTAL
1974	3331 73.7%	1188 26.3%	N/A	1302	5821
1975	4562 76.4	1407 23.6	N/A	492	6461
1976	4760 76.9	1427 23.1	N/A	428	6615
1977	4907 78.4	1351 21.6	N/A	583	6841
1978	5330 79.5	1372 20.5	N/A	1020	7722
1979	5895 80.9	1388 19.1	N/A	932	8215
1980	4782 77.8	1365 22.2	N/A	2339	8486
1981	5070 69.2	2254 30.8	N/A	1723	9047
1982	5948 66.9	2948 33.1	N/A	-	8896
1983	5574 65.8	2468 29.1	433 5.1%	462	8937
1984	5784 64.6	2823 31.5	350 3.9	-	8957
1985	5838 61.5	3016 31.8	640 6.7	-	9494

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

Students by Degree Objective

YEAR	BACHELOR		MPH		MS		MSPH		MHA/ MHSA		OTHER MASTERS		DrPH	
1974	130	2.6%	2437	48.7%	N/A		294	5.9%	N/A		853	17.1%	318	6.4%
1975	212	3.6	2838	47.5	N/A		618	10.3	N/A		848	14.2	382	6.4
1976	111	1.8	2986	48.2	N/A		653	10.5	N/A		862	13.9	394	6.4
1977	55	0.9	3152	49.3	609	9.5%	373	5.8	292	4.6%	413	6.5	375	5.9
1978	56	0.8	3479	49.7	633	9.0	519	7.4	255	3.6	404	5.8	431	6.2
1979[1]	126	1.7	N/A		N/A		N/A		N/A		5385	73.5	N/A	
1980	82	1.2	3176	47.1	473	7.0	534	7.9	394	5.9	357	5.3	442	6.6
1981[1]	42	0.5	N/A		N/A		N/A		N/A		6378	73.3	N/A	
1982	N/A		4293	48.3	758	8.5	594	6.7	N/A		609	6.8	549	6.2
1983	N/A		4153	46.5	755	8.4	550	6.2	389	4.4	365	4.1	567	6.3
1984	N/A		4300	48.0	755	8.4	411	4.6	404	4.5	339	3.8	594	6.6
1985	N/A		4461	47.0	911	9.6	311	3.3	422	4.4	344	3.6	612	6.5

YEAR	ScD		PhD		OTHER DOCT.		JOINT DEGREE[2]		NON DEGREE		UNKNOWN	TOTAL
1974	N/A		447	8.9%	184	3.7%	N/A		338	6.8%	820	5821
1975	N/A		578	9.7	219	3.7	N/A		279	4.7	487	6461
1976	N/A		623	10.1	234	3.8	75	1.2%	253	4.1	424	6615
1977	209	3.3%	611	9.6	70	1.1	25	0.4	214	3.3	443	6841
1978	229	3.3	669	9.6	69	1.0	23	0.3	231	3.3	724	7722
1979[1]	N/A		N/A		1552	21.2	N/A		261	3.6	891	8215
1980	170	2.5	771	11.4	49	0.7	27	0.4	265	3.9	1746	8486
1981[1]	N/A		N/A		1803	20.7	N/A		479	5.5	345	9047
1982	269	3.0	978	11.0	19	0.2	69	0.8	752	8.5	6	8896
1983	257	2.9	1002	11.2	50	0.6	154	1.7	695	7.8	0	8937
1984	264	3.0	994	11.1	48	0.6	165	1.8	683	7.6	0	8957
1985	261	2.8	1057	11.1	80	0.8	121	1.3	914	9.6	0	9494

1 No breakdown of master's and doctoral degrees.
2 Until 1983 data is only for MD-MPH joint degrees.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF STUDENTS (Continued)

Students by Area of Specialization

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/BS		ENV.SC		OS&H	
1974	339	7.3%	422	9.1%	1380	29.8%	416	9.0%	181	3.9%	653	14.1%	114	2.5%
1975	478	8.3	873	15.1	1894	32.8	557	9.6	341	5.9	795	13.8	157	2.7
1976	462	7.5	968	15.7	1788	29.0	573	9.3	449	7.3	762	12.3	154	2.5
1977	440	6.9	759	11.9	1740	27.2	682	10.7	421	6.6	764	12.0	228	3.6
1978	491	7.1	880	12.8	1809	26.3	744	10.8	489	7.1	821	11.9	269	3.9
1979	495	6.8	940	13.0	1923	26.6	651	9.0	495	6.8	900	12.4	310	4.3
1980	472	7.1	882	13.2	1656	24.9	591	8.9	440	6.6	584	8.8	437	6.6
1981	529	6.3	1051	12.5	1731	20.6	921	10.9	556	6.6	956	11.4	398	4.7
1982	559	6.4	1070	12.2	2107	24.0	644.5	7.4	590.5	6.7	1121.5	12.8	313.5	3.6
1983	489.5	6.0	1171.5	14.3	2187.5	26.6	593	7.2	730.5	8.9	1233	15.0	136.5	1.7
1984	468.5	5.7	1130.5	13.7	2356	28.5	596.5	7.2	836	10.1	1109.5	13.4	218	2.7
1985	474.5	5.5	1236.5	14.4	2431	28.4	595	7.0	856	10.0	1116	13.0	239.5	2.8

YEAR	NUTR		BIOMED		OTHER		NONSPEC		NONDEGREE	UNKNOWN	TOTAL
1974	201	4.3%	N/A		927	20.0%	N/A		N/A	1188	5821
1975	245	4.2	N/A		440	7.6	N/A		N/A	681	6461
1976	328	5.3	N/A		690	11.2	N/A		N/A	441	6615
1977	388	6.1	273	4.3%	693	10.8	N/A		N/A	453	6841
1978	386	5.6	256	3.7	731	10.7	N/A		N/A	846	7722
1979	377	5.2	316	4.4	827	11.4	N/A		N/A	981	8215
1980	352	5.3	229	3.4	1018	15.3	N/A		N/A	1825	8486
1981	333	4.0	373	4.4	897	10.7	670	8.0%	N/A	632	9047
1982	373	4.3	348	4.0	859	9.8	783	8.9	N/A	127	8896
1983	276	3.4	258	3.1	781.5	9.5	362	4.4	695	23	8937
1984	300.5	3.6	273	3.3	684.5	8.3	289	3.5	683	12	8957
1985	282.5	3.3	275	3.2	720	8.4	339	4.0	914	15	9494

Beginning in 1982 students with dual specializations counted as .5 in each area.
Until 1983 nondegree students recorded under their area of study or nonspecialized.

U.S. SCHOOLS OF PUBLIC HEALTH
TOTAL ENROLLMENTS
Fall Semester

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
ALA	..	..	..	..	90	129	147	165	126	135	138	248
BOSTON	..	..	..	..	..	..	..	280	270	282	254	335
CAL-BERK*	371	396	505	430	415	466	469	497	435	484	465	482
CAL-UCLA*	462	493	521	484	528	584	607	580	530	589	543	569
COLUMBIA*	200	291	327	343	399	413	487	431	538	480	494	506
HARVARD*	341	381	361	414	473	455	435	403	421	378	426	421
HAWAII*	149	200	268	316	336	350	352	338	312	260	215	237
ILL*	103	113	139	139	154	144	163	216	287	263	296	330
JHU*	493	565	551	633	653	735	891	834	856	851	806	855
L.LINDA	197	241	269	223	323	258	271	761[1]	722	539	392	466
MASS*	87	105	86	119	118	167	138	139	135	126	152	138
MICH*	762	775	683	610	704	657	742	742	645	643	634	620
MINN*	379	477	460	455	508	509	502	448	374	369	393	405
N.CAR*	533	501	520	595	660	671	670	600	637	685	739	728
OKLA*	184	178	172	186	193	248	232	225	188	237	246	279
PITT*	454	408	408	459	465	483	454	500	454	496	522	552
PR	N/A	221	96	136	136	136	144	140	203	224	238	277
S.CAR	..	..	..	76	117	154	154	175	192	214	274	308
S.DIEGO	..	..	..	..	..	..	..	..	100	130	180	182
TEXAS*	325	372	365	414	555	601	603	576	504	494	503	468
TULANE*	301	306	302	338	366	405	344	389	382	427	415	432
WASH*	264	223	285	242	290	380	404	321	294	359	335	382
YALE*	216	215	297	229	239	270	277	287	291	272	297	274
TOTAL	5,821[2]	6,461	6,615	6,841	7,722	8,215	8,486	9,047	8,896	8,937	8,957	9,494
Trends for 17 schools*	5,624	5,999	6,250	6,406	7,056	7,538	7,770	7,526	7,283	7,413	7,481	7,678
		(+7%)	(+4%)	(+3%)	(+10%)	(+7%)	(+3%)	(-3%)	(-3%)	(+2%)	(+1%)	(+3%)

1 Off-campus students included for first time.
2 Puerto Rico not included.

IV. GRADUATES

A. 1985-86 Graduates

There were 3,268 graduates from the 23 schools in 1985-86, a 7% increase over 1984-85. Of the graduate total, 58% were female, 17% foreign, and over 14% of the U.S. graduates were members of minority groups.

Almost 65% of the degrees awarded were MPH degrees, and over 10% were doctorates. Thirteen percent of the male graduates got doctorates compared to 9% of the female graduates; 11% of the White graduates got doctorates compared to 13% of the Asian, 4% of the Black, 10% of the Hispanic (excluding Puerto Rico), and 5% of the American Indian graduates.

Areas with the greatest number of graduates were health services administration (29%), epidemiology (14%), and environmental sciences (12%). Those areas with the greatest proportion of doctorates were biomedical sciences (31%) and biostatistics (30%).

There were 541 graduates with prior MD degrees reported by the schools. The areas with the highest proportion of prior MDs were occupational health (33%), epidemiology (28%), nonspecialized (27%) and other areas (26%).

Almost 58% of the graduates had only a prior bachelor's degree. This figure is higher if nursing degrees (most of which are bachelor's) are included. There were significant differences in prior degrees based on sex and citizenship. About 64% of the females had only a prior bachelor's compared to 50% of the males. Over 29% of the males had prior MD degrees compared to 9% of the females. Almost half (49%) of the foreign graduates had prior MD degrees compared to 11% for U.S. graduates.

U.S. SCHOOLS OF PUBLIC HEALTH
SUMMARY CHARACTERISTICS OF GRADUATES
1985-86

SEX & CITIZENSHIP					
MALES	1358	41.6%	U.S.	2703	83.0%
FEMALES	1909	58.4	FOREIGN	553	17.0
UNKNOWN	1	-	UNKNOWN	12	-
TOTAL	3268	100.0%	TOTAL	3268	100.0%
U.S. MALES	1002	37.1%	FOR.MALES	352	63.7%
U.S. FEMALES	1700	62.9	FOR.FEMALES	201	36.3
UNKNOWN	1	-	UNKNOWN	-	-
TOTAL	2703	100.0%	TOTAL	553	100.0%

RACE (U.S.)	MALES	FEMALES	UNKNOWN	TOTAL	
ASIAN	38	74	0	112	4.3%
BLACK	47	103	0	150	5.7
HISPANIC	28	67	0	95	3.6
AMERIND	10	10	0	20	0.8
(TOTAL MIN.)	(123)	(254)	(0)	(377)	(14.4)
WHITE	838	1404	0	2242	85.6
UNKNOWN	41	42	1	84	-
TOTAL	1002	1700	1	2703	100.0%

AREA					
BIOSTAT	118	3.6%	OS&H	78	2.4%
EPID	450	13.8	NUTR	111	3.4
HSA	933	28.5	BIOMED	104	3.2
PHP&PM	281	8.6	OTHER	304	9.3
H.EDUC/BS	284.5	8.7	NONSPEC	216	6.6
ENV.SC	388.5	11.9	TOTAL	3268	100.0%

DEGREE AWARDED					
MPH	2115	64.7%	PhD	182	5.6%
MS	339	10.4	OTHER DOCT.	10	0.3
MSPH	117	3.6	JOINT DEGREE	80	2.4
MHA/MHSA	171	5.2	TOTAL	3268	100.0%
OTHER MASTERS	100	3.1	TOTAL MASTERS	2922	89.4%
DrPH	107	3.3	TOTAL DOCT.	346	10.6%
ScD	47	1.4			

HIGHEST PREVIOUS DEGREE					
BACHELORS	1817	57.9%	PhD	36	1.1%
NURSING DEG.	223	7.1	OTHER DOCT.	22	0.7
MASTERS	392	12.5	OTHER DEGREE	53	1.7
MD/DO	541	17.2	UNKNOWN	129	-
DDS	36	1.2	TOTAL	3268	100.0%
DVM	19	0.6			

TABLE 4-1
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL, SEX & CITIZENSHIP
1985-86

SCHOOL	MALE	FEMALE	UNKNOWN	TOTAL
ALA	62.0	39.0	.0	101.0
BOSTON	29.0	72.0	.0	101.0
CAL-BERK	70.0	168.0	.0	238.0
CAL-UCLA	68.0	128.0	.0	196.0
COLUMBIA	44.0	149.0	.0	193.0
HARVARD	108.0	111.0	.0	219.0
HAWAII	27.0	49.0	.0	76.0
ILL	27.0	37.0	.0	64.0
JHU	139.0	155.0	.0	294.0
L.LINDA	63.0	80.0	.0	143.0
MASS	14.0	17.0	.0	31.0
MICH	102.0	139.0	.0	241.0
MINN	84.0	129.0	.0	213.0
N.CAR	104.0	157.0	.0	261.0
OKLA	45.0	42.0	.0	87.0
PITT	51.0	68.0	.0	119.0
PR	19.0	39.0	.0	58.0
S.CAR	24.0	39.0	.0	63.0
S.DIEGO	23.0	26.0	.0	49.0
TEXAS	62.0	65.0	1.0	128.0
TULANE	112.0	80.0	.0	192.0
WASH	43.0	47.0	.0	90.0
YALE	38.0	73.0	.0	111.0
Total	1358.0	1909.0	1.0	3268.0

SCHOOL	U.S.	FOREIGN	UNKNOWN	TOTAL
ALA	74.0	27.0	.0	101.0
BOSTON	87.0	14.0	.0	101.0
CAL-BERK	218.0	20.0	.0	238.0
CAL-UCLA	162.0	22.0	12.0	196.0
COLUMBIA	180.0	13.0	.0	193.0
HARVARD	162.0	57.0	.0	219.0
HAWAII	61.0	15.0	.0	76.0
ILL	57.0	7.0	.0	64.0
JHU	200.0	94.0	.0	294.0
L.LINDA	104.0	39.0	.0	143.0
MASS	31.0	.0	.0	31.0
MICH	211.0	30.0	.0	241.0
MINN	193.0	20.0	.0	213.0
N.CAR	236.0	25.0	.0	261.0
OKLA	78.0	9.0	.0	87.0
PITT	108.0	11.0	.0	119.0
PR	53.0	5.0	.0	58.0
S.CAR	54.0	9.0	.0	63.0
S.DIEGO	38.0	11.0	.0	49.0
TEXAS	104.0	24.0	.0	128.0
TULANE	103.0	89.0	.0	192.0
WASH	88.0	2.0	.0	90.0
YALE	101.0	10.0	.0	111.0
Total	2703.0	553.0	12.0	3268.0

TABLE 4-2
U.S. SCHOOLS OF PUBLIC HEALTH
U.S. GRADUATES BY SCHOOL & RACE
1985-86

SCHOOL	ASIAN	BLACK	HISPANIC	AMERIND	TOTALMIN.
ALA	5.0	5.0	.0	.0	10.0
BOSTON	2.0	5.0	2.0	.0	9.0
CAL-BERK	19.0	14.0	7.0	6.0	46.0
CAL-UCLA	12.0	9.0	9.0	.0	30.0
COLUMBIA	6.0	18.0	.0	.0	24.0
HARVARD	21.0	10.0	2.0	.0	33.0
HAWAII	14.0	1.0	1.0	2.0	18.0
ILL	2.0	3.0	.0	.0	5.0
JHU	2.0	11.0	3.0	.0	16.0
L.LINDA	2.0	6.0	1.0	.0	9.0
MASS	.0	1.0	.0	.0	1.0
MICH	7.0	5.0	3.0	.0	15.0
MINN	1.0	2.0	.0	.0	3.0
N.CAR	.0	17.0	1.0	2.0	20.0
OKLA	2.0	12.0	2.0	9.0	25.0
PITT	5.0	4.0	.0	.0	9.0
PR	.0	.0	53.0	.0	53.0
S.CAR	1.0	5.0	.0	.0	6.0
S.DIEGO	.0	.0	.0	.0	.0
TEXAS	4.0	4.0	4.0	1.0	13.0
TULANE	1.0	7.0	5.0	.0	13.0
WASH	3.0	1.0	2.0	.0	6.0
YALE	3.0	10.0	.0	.0	13.0
Total	112.0	150.0	95.0	20.0	377.0

SCHOOL	WHITE	UNKNOWN	TOTAL
ALA	64.0	.0	74.0
BOSTON	78.0	.0	87.0
CAL-BERK	172.0	.0	218.0
CAL-UCLA	110.0	22.0	162.0
COLUMBIA	156.0	.0	180.0
HARVARD	129.0	.0	162.0
HAWAII	40.0	3.0	61.0
ILL	52.0	.0	57.0
JHU	184.0	.0	200.0
L.LINDA	95.0	.0	104.0
MASS	19.0	11.0	31.0
MICH	150.0	46.0	211.0
MINN	190.0	.0	193.0
N.CAR	216.0	.0	236.0
OKLA	53.0	.0	78.0
PITT	99.0	.0	108.0
PR	.0	.0	53.0
S.CAR	48.0	.0	54.0
S.DIEGO	37.0	1.0	38.0
TEXAS	90.0	1.0	104.0
TULANE	90.0	.0	103.0
WASH	82.0	.0	88.0
YALE	88.0	.0	101.0
Total	2242.0	84.0	2703.0

TABLE 4-3
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY DEGREE, SEX, CITIZENSHIP & RACE[1]
1985-86

DEGREE	U.S.MALES	U.S.FEMALES	FOR.MALES	FOR.FEMALES
MPH	581.0	1113.0	255.0	155.0
MS	114.0	182.0	27.0	16.0
MSPH	36.0	57.0	17.0	7.0
MHA/MHSA	72.0	93.0	4.0	2.0
OTHER.MAST	25.0	66.0	7.0	2.0
DrPH	30.0	49.0	18.0	10.0
ScD	24.0	16.0	5.0	2.0
PhD	80.0	80.0	14.0	7.0
OTHER.DOC	7.0	.0	2.0	.0
JOINT.DEG	33.0	44.0	3.0	.0
Total	1002.0	1700.0	352.0	201.0
% MASTERS	85.9	91.5	88.9	90.5
% DOCTORATES	14.1	8.5	11.1	9.5

DEGREE	MALE	FEMALE	U.S.	FOREIGN
MPH	839.0	1275.0	1695.0	410.0
MS	141.0	198.0	296.0	43.0
MSPH	53.0	64.0	93.0	24.0
MHA/MHSA	76.0	95.0	165.0	6.0
OTHER.MAST	32.0	68.0	91.0	9.0
DrPH	48.0	59.0	79.0	28.0
ScD	29.0	18.0	40.0	7.0
PhD	95.0	87.0	160.0	21.0
OTHER.DOC	9.0	1.0	7.0	2.0
JOINT.DEG	36.0	44.0	77.0	3.0
Total	1358.0	1909.0	2703.0	553.0
% MASTERS	86.7	91.4	89.4	89.5
% DOCTORATES	13.3	8.6	10.6	10.5

DEGREE	ASIAN	BLACK	HISPANIC		AMERIND	WHITE
			Mainland	P.R.		
MPH	73.0	106.0	31.0	14.0	18.0	1421.0
MS	13.0	15.0	2.0	17.0	1.0	220.0
MSPH	1.0	9.0	3.0	.0	.0	80.0
MHA/MHSA	2.0	5.0	1.0	15.0	.0	139.0
OTHER.MAST	2.0	4.0	1.0	7.0	.0	77.0
DrPH	5.0	3.0	3.0	.0	.0	67.0
ScD	4.0	1.0	.0	.0	.0	35.0
PhD	6.0	2.0	1.0	.0	1.0	132.0
OTHER.DOC	.0	.0	.0	.0	.0	5.0
JOINT.DEG	6.0	5.0	.0	.0	.0	66.0
Total	112.0	150.0	42.0	53.0	20.0	2242.0
% MASTERS	86.6	96.0	90.5	100.0	95.0	89.3
% DOCTORATES	13.4	4.0	9.5	-	5.0	10.7

[1] Excludes graduates of unknown sex, citizenship and race.

TABLE 4.4

U.S. SCHOOLS OF PUBLIC HEALTH

GRADUATES BY SCHOOL AND DEGREE AWARDED

1985-86

	MPH		MS		MSPH		MHA/ MHSA		OTHER MASTERS		DrPH		ScD		PhD		OTHER DOCT.		JOINT DEGREE		TOTAL	TOTAL[1] MASTERS		TOTAL[1] DOCT.	
ALA	86	85.2%			6	5.9%					2	2.0%							7	6.9%	101	99	98.0%	2	2.0%
BOSTON	100	99.0	1	1.0%																	101	101	100.0	-	
CAL-BERK	206	86.6	9	3.8					4	1.7%	12	5.0			7	2.9%					238	219	92.0	19	8.0
CAL-UCLA	136	69.4	29	14.8							5	2.6			15	7.7	7	3.6%	4	2.0	196	169	86.2	27	13.8
COLUMBIA	134	69.4	10	5.2							10	5.2							39	20.2	193	183	94.8	10	5.2
HARVARD	93	42.5	90	41.1					1	0.5	5	2.3	21	9.6%					9	4.1	219	193	88.1	26	11.9
HAWAII	64	84.2	8	10.5							1	1.3			3	4.0					76	72	94.7	4	5.3
ILL	56	87.5	1	1.6							3	4.7			4	6.3					64	57	89.1	7	10.9
JHU	176	59.9	19	6.5					39	13.3	6	2.0	19	6.5	35	11.9					294	234	79.6	60	20.4
L.LINDA	124	86.7			6	4.2	6	4.2%			5	3.5					2	1.4			143	136	95.1	7	4.9
MASS	5	16.1	25	80.7											1	3.2					31	30	96.8	1	3.2
MICH	139	57.7	31	12.9			44	18.3			3	1.2			24	10.0					241	214	88.8	27	11.2
MINN	125	58.7	28	13.1			46	21.6							14	6.6					213	199	93.4	14	6.7
N.CAR	127	48.7	37	14.2	51	19.5			14	5.4	13	5.0			19	7.3					261	229	87.7	32	12.3
OKLA	74	85.1	6	6.9											7	8.0					87	80	92.0	7	8.0
PITT	49	41.2					14	11.8	34	28.6	3	2.5	4	3.4	15	12.6					119	97	81.5	22	18.5
PR	18	31.0	18	31.0			15	25.9	7	12.1											58	58	100.0	-	-
S.CAR	22	34.9	3	4.8	24	38.1	7	11.1	1	1.6	3	4.8			2	3.2	1	1.6			63	57	90.5	6	9.5
S.DIEGO	49	100.0																			49	49	100.0	-	
TEXAS	73	57.0	11	8.6							26	20.3			18	14.1					128	84	65.6	44	34.4
TULANE	115	59.9			30	15.6	13	6.8			10	5.2	3	1.6					21	10.9	192	179	93.2	13	6.8
WASH	42	46.7	13	14.4			26	28.9							9	10.0					90	81	90.0	9	10.0
YALE	102	91.9													9	8.1					111	102	91.9	9	8.1
TOTAL	2115	64.7	339	10.4	117	3.6	171	5.2	100	3.1	107	3.3	47	1.4	182	5.6	10	0.3	80	2.4	3268	2922	89.4%	346	10.6%

1 Includes joint degrees classified according to SPH degree.

TABLE 4-5
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA AND DEGREE
1985-86

	BIOSTAT	EPID	HSA	PHP&PM	H.EDUC/ BS	ENV.SCI
MPH	18	309.5	581	237.5	203.5	163.5
MS	48	45.5	71	16	39	77
MSPH	9	15	29	1	3	45
MHA/MHSA			169	2		
OTHER MAST	8	9	11	3	4	31
DrPH	4	14	16	7	15	7
ScD	5	3	10	6	4	7
PhD	26	52	9	2	15	51
OTHER DOC				2	1	7
JOINT DEG		2	37	4.5		
TOTAL	118	450	933	281	284.5	388.5
% MASTERS	70.3	84.7	96.2	94.0	87.7	81.5
% DOCTORATES	29.7	15.3	3.8	6.0	12.3	18.5

	OS&H	NUTR	BIOMED	OTHER	NONSPEC	TOTAL
MPH	41.5	94	46	232.5	188	2115
MS	16.5	5	8	13		339
MSPH	3		7	5		117
MHA/MHSA						171
OTHER MAST	6	4	8	16		100
DrPH	5	5	6	28		107
ScD	3		8	1		47
PhD	3	3	18	3		182
OTHER DOC						10
JOINT DEG			3	5.5	28	80
TOTAL	78	111	104	304	216	3268
% MASTERS	85.9	92.8	69.2	89.5	100.0	89.4
% DOCTORATES	14.1	7.2	30.8	10.5	-	10.6

TABLE 4-6
U.S. SCHOOLS OF PUBLIC HEALTH
JOINT DEGREES BY AREA, SEX & CITIZENSHIP
1985-86

AREA	SUBAREA	JOINT DEG.	TOTAL
EPID		MD-MPH	1.0
EPID		MPH-OD	1.0
HSA		MD-MPH	1.0
HSA		MPH-DMD	3.0
HSA		MPH-MBA	11.0
HSA		MPH-MIA	1.0
HSA		MPH-MPA	1.0
HSA		MPH-MSN	10.0
HSA		MPH-MSUP	4.0
HSA		MPH-MSW	6.0
PHP&PM	DENTAL.PH	MPH-MSPH	.5
PHP&PM	MCH	MD-MPH	1.0
PHP&PM	MCH	MPH-MSW	3.0
BIOMED		MD-MPH	3.0
OTHER	INTER.HLTH	MPH-MSPH	.5
OTHER	POP/FAM.HLTH	MPH-MA	1.0
OTHER	POP/FAM.HLTH	MPH-MIA	1.0
OTHER	POP/FAM.HLTH	MPH-MSN	1.0
OTHER	POP/FAM.HLTH	MPH-MSW	1.0
OTHER	TROPICAL.PH	MD-MPH	1.0
NONSPEC		MD-MPH	20.0
NONSPEC		MPH-DDS	2.0
NONSPEC		MPH-MBA	4.0
NONSPEC		MPH-MSN	1.0
NONSPEC		MPH-PhD	1.0
Total			80.0

JOINT DEG.	MALE	FEMALE	U.S.	FOREIGN
MD-MPH	19.0	8.0	27.0	.0
MPH-DDS	2.0	.0	2.0	.0
MPH-DMD	2.0	1.0	1.0	2.0
MPH-MA	1.0	.0	1.0	.0
MPH-MBA	7.0	8.0	15.0	.0
MPH-MIA	.0	2.0	2.0	.0
MPH-MPA	.0	1.0	1.0	.0
MPH-MSN	.0	12.0	12.0	.0
MPH-MSPH	1.0	.0	.0	1.0
MPH-MSUP	.0	4.0	4.0	.0
MPH-MSW	3.0	7.0	10.0	.0
MPH-OD	.0	1.0	1.0	.0
MPH-PhD	1.0	.0	1.0	.0
Total	36.0	44.0	77.0	3.0

TABLE 4-7
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA, SEX, CITIZENSHIP & RACE[1]
1985-86

AREA	U.S. MALES	U.S. FEMALES	FOR.MALES	FOR.FEMALES
BIOSTAT	42.0	44.0	16.0	13.0
EPID	138.0	222.0	66.0	22.0
HSA	300.0	546.0	55.5	30.5
PHP&PM	43.5	168.0	35.5	34.0
H.EDUC/BS	54.0	199.0	14.0	15.5
ENV.SC	208.0	139.5	28.0	10.0
OS&H	39.0	24.0	8.0	7.0
NUTR	13.0	84.5	.0	13.5
BIOMED	37.0	41.0	18.0	8.0
OTHER	46.5	130.0	89.0	36.5
NONSPEC	81.0	102.0	22.0	11.0
Total	1002.0	1700.0	352.0	201.0

AREA	MALE	FEMALE	U.S.	FOREIGN
BIOSTAT	58.0	60.0	86.0	29.0
EPID	205.0	245.0	360.0	88.0
HSA	355.5	577.5	846.0	86.0
PHP&PM	79.0	202.0	211.5	69.5
H.EDUC/BS	69.0	215.5	253.0	29.5
ENV.SC	238.0	150.5	347.5	38.0
OS&H	47.0	31.0	63.0	15.0
NUTR	13.0	98.0	97.5	13.5
BIOMED	55.0	49.0	78.0	26.0
OTHER	135.5	167.5	177.5	125.5
NONSPEC	103.0	113.0	183.0	33.0
Total	1358.0	1909.0	2703.0	553.0

AREA	ASIAN	BLACK	HISPANIC		AMERIND	WHITE
			Mainland	P.R.		
BIOSTAT	4.0	2.0	1.0	.0	1.0	75.0
EPID	19.5	16.5	3.0	5.0	.0	304.0
HSA	27.0	58.0	8.0	18.0	13.0	702.0
PHP&PM	9.0	11.0	1.0	4.0	1.0	184.5
H.EDUC/BS	9.0	20.0	8.0	3.0	4.0	200.0
ENV.SC	9.5	12.0	2.0	12.0	.0	287.0
OS&H	4.5	1.0	1.0	.0	.0	50.5
NUTR	4.5	5.5	.0	4.0	.0	80.5
BIOMED	6.0	1.0	3.0	.0	.0	68.0
OTHER	5.0	11.0	11.0	2.0	.0	143.5
NONSPEC	14.0	12.0	4.0	5.0	1.0	147.0
Total	112.0	150.0	42.0	53.0	20.0	2242.0

[1]Excludes graduates of unknown sex, citizenship and race.

TABLE 4-8
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY AREA, RACE & SEX
1985-86

MALES

AREA	ASIAN	BLACK	HISPANIC (Mainland)	AMERIND	WHITE
BIOSTAT	1.0	1.0	1.0	.0	37.0
EPID	8.0	5.0	.0	.0	117.0
HSA	7.0	20.0	3.0	7.0	246.0
PHP&PM	2.0	1.0	.0	.0	38.5
H.EDUC/BS	3.0	7.0	4.0	3.0	36.0
ENV.SC	3.0	6.0	.0	.0	176.0
OS&H	3.0	1.0	.0	.0	31.0
NUTR	.0	1.0	.0	.0	11.0
BIOMED	1.0	.0	1.0	.0	35.0
OTHER	3.0	2.0	2.0	.0	39.5
NONSPEC	7.0	3.0	.0	.0	71.0
Total	38.0	47.0	11.0	10.0	838.0

FEMALES

AREA	ASIAN	BLACK	HISPANIC (Mainland)	AMERIND	WHITE
BIOSTAT	3.0	1.0	.0	1.0	38.0
EPID	11.5	11.5	3.0	.0	187.0
HSA	20.0	38.0	5.0	6.0	456.0
PHP&PM	7.0	10.0	1.0	1.0	146.0
H.EDUC/BS	6.0	13.0	4.0	1.0	164.0
ENV.SC	6.5	6.0	2.0	.0	111.0
OS&H	1.5	.0	1.0	.0	19.5
NUTR	4.5	4.5	.0	.0	69.5
BIOMED	5.0	1.0	2.0	.0	33.0
OTHER	2.0	9.0	9.0	.0	104.0
NONSPEC	7.0	9.0	4.0	1.0	76.0
Total	74.0	103.0	31.0	10.0	1404.0

HISPANIC GRADUATES AT PUERTO RICO

AREA	MALES	FEMALES	TOTAL
EPID	1.0	4.0	5.0
HSA	8.0	10.0	18.0
PHP&PM	1.0	3.0	4.0
H.EDUC/BS	.0	3.0	3.0
ENV.SC	6.0	6.0	12.0
NUTR	1.0	3.0	4.0
OTHER	.0	2.0	2.0
NONSPEC	.0	5.0	5.0
Total	17.0	36.0	53.0

TABLE 4-9

U.S. SCHOOLS OF PUBLIC HEALTH

GRADUATES BY SCHOOL AND AREA OF SPECIALIZATION

1985-86

	BIOSTAT		EPID		HSA		PNP&PH		H.EDUC/ BS		ENV.SC		OS&H		NUTR		BIOMED		OTHER		NONSPEC		TOTAL
ALA			19	18.8%																			
BOSTON			20	19.8	61	60.4%	9.5	9.4%	5	5.0%	6	5.9%	5	5.0%					23.5	23.3%	33	32.7%	101
CAL-BERK	7	2.9	32	13.5	43	18.1	34	14.3	8	7.9	12	11.9											101
CAL-UCLA	16	8.2	34	17.3	46	23.5			36	15.1	29	12.2			13	5.5%	15	6.3%			29	12.2	238
COLUMBIA	8	4.1	18	9.3	87	45.1			32	16.3	21	10.7			15	7.7			32	16.3			196
HARVARD	10	4.6	28	12.8	69	31.5	18	8.2	3	1.6	16	8.3							36	18.7	25	13.0	193
HAWAII	2	2.6	8	10.5	18	23.7	11	14.5	3	1.4	11	5.0	16	7.3	1	0.5	5	2.3	15	6.9	43	19.6	219
ILL			11	17.2	22	34.4	19	29.7	15	19.7	11	14.5			10	13.2			1	1.3			76
JHU	8	2.7	64	21.8	53	18.0	31	10.5	15	5.1	3	4.7	9	14.1									64
L.LINDA	3	2.1	2	1.4	12	8.4	2	1.4	31.5	22.0	37	12.6					24	8.2	62	21.1			294
MASS			8	25.8	12	38.7			2	6.5	25	17.5			9.5	6.6			21	14.7	37	25.9	143
MICH	7	2.9	32	13.3	93	38.6	8.5	3.5	23	9.5	8	25.8			1	3.2							31
MINN	11	5.2	18	8.5	54	25.4	59	27.7	26	12.2	38.5	16.0	22	9.1	6.5	2.7			10.5	4.4			241
N.CAR	19	7.3	17	6.5	69	26.4	37	14.2	26	10.0	33	15.5			12	5.6							213
OKLA	1	1.2	11	12.6	49	56.3			10	11.5	49	18.8			29	11.1	15	5.8					261
PITT	6	5.0	25	21.0	47	39.5					16	18.4											87
PR			6	10.3	18	31.0	5	8.6	3	5.2	11	9.2	7	5.9			10	8.4	13	10.9			119
S.CAR	3	4.8	13	20.6	12	19.1			21	33.3	13	22.4			4	6.9			2	3.5	7	12.1	58
S.DIEGO			7	14.3	8	16.3	21	42.9	11	22.5	14	22.2											63
TEXAS	7	5.5	10	7.8	11	8.6	9	7.0	4	3.1	1	2.0	1	2.0									49
TULANE	5	2.6	13	6.8	31	16.1	17	8.9	10	5.2	8	6.3	15	11.7					40	31.3	24	18.8	128
WASH	3	3.3	15	16.7	57	63.3					13	6.8			10	5.2	27	14.1	48	25.0	18	9.4	192
YALE	2	1.8	39	35.1	61	55.0					4	4.4	3	3.3			8	8.9					90
TOTAL	118	3.6	450	13.8	933	28.5	281	8.6	284.5	8.7	9	8.1	78	2.4	111	3.4	104	3.2	304	9.3	216	6.6	111
											388.5	11.9											3268

TABLE 4-10
U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES WITH PRIOR M.D. DEGREES BY AREA & DEGREE
1985-86

AREA	U.S.		FOREIGN		TOTAL		% OF GRADUATES WITH PRIOR M.D. DEGREES
BIOSTAT	3.0	1.1%	2.0	0.8%	5.0	0.9%	4.2%
EPID	67.5	24.0	60.0	23.1	127.5	23.6	28.3
HSA	66.5	23.7	28.0	10.8	94.5	17.5	10.1
PHP&PM	39.0	13.9	46.0	17.7	85.0	15.7	30.3
H.EDUC/BS	3.0	1.1	7.0	2.7	10.0	1.9	3.5
ENV.SC	19.0	6.8	7.0	2.7	26.0	4.8	6.7
OS&H	16.0	5.7	10.0	3.8	26.0	4.8	33.3
NUTR	2.0	0.7	3.0	1.2	5.0	0.9	4.5
BIOMED	9.0	3.2	16.0	6.2	25.0	4.6	24.0
OTHER	20.0	7.1	59.0	22.7	79.0	14.6	26.0
NONSPEC	36.0	12.8	22.0	8.4	58.0	10.7	26.9
Total	281.0	100.0 %	260.0	100.0%	541.0	100.0%	

DEGREE	U.S.	FOREIGN	TOTAL
MPH	258.0	224.0	482.0
MS	12.0	14.0	26.0
MSPH	.0	4.0	4.0
OTHER.MAST	2.0	1.0	3.0
DrPH	3.0	13.0	16.0
ScD	3.0	2.0	5.0
PhD	3.0	2.0	5.0
Total	281.0	260.0	541.0

TABLE 4-11
U.S. SCHOOLS OF PUBLIC HEALTH
HIGHEST PREVIOUS DEGREE OF GRADUATES BY SEX & CITIZENSHIP[1]
1985-86

PRIORDEG.	U.S.MALES		U.S.FEMALES		FORMALES		FOR.FEMALES	
BACHELOR	550	58.0%	1100	66.7%	90	26.7%	67	35.1%
NURSING	13	1.4	196	11.9	1	0.3	13	6.8
MASTERS	142	15.0	196	11.9	28	8.3	24	12.6
MD	185	19.5	96	5.8	192	57.0	68	35.6
DDS	16	1.7	7	0.4	8	2.4	4	2.1
DVM	7	0.7	7	0.4	5	1.5	0	0
PhD	14	1.5	16	1.0	2	0.6	4	2.1
OTHER.DOC	7	0.7	13	0.8	2	0.6	0	0
OTHER.DEG	15	1.5	18	1.1	9	2.7	11	5.8
UNKNOWN	53	-	51	-	15	-	10	-
Total	1002	100.0%	1700	100.0%	352	100.0%	201	100.0%

PRIORDEG	MALE		FEMALE		U.S.		FOREIGN	
BACHELOR	643	50.0%	1173	63.5%	1651	63.5%	157	29.7%
NURSING	14	1.1	209	11.3	209	8.0	14	2.7
MASTERS	171	13.2	221	12.0	338	13.0	52	9.8
MD	377	29.2	164	8.9	281	10.8	260	49.2
DDS	24	1.9	12	0.6	23	0.9	12	2.3
DVM	12	0.9	7	0.4	14	0.5	5	1.0
PhD	16	1.2	20	1.1	30	1.2	6	1.1
OTHER.DOC	9	0.7	13	0.7	20	0.8	2	0.4
OTHER.DEG	24	1.9	29	1.6	33	1.3	20	3.8
UNKNOWN	68	-	61	-	104	-	25	-
Total	1358	100.0%	1909	100.0%	2703	100.0%	553	100.0

[1] Excludes graduates of unknown sex and citizenship.

TABLE 4-12

U.S. SCHOOLS OF PUBLIC HEALTH

HIGHEST PREVIOUS DEGREE OF GRADUATES BY SCHOOL

1985-86

	BACHELOR	NURSING[1] DEGREE	MASTERS	MD/DO	DDS	DVM	PhD	OTHER DOCTORATE	OTHER DEGREE	UNKNOWN	TOTAL
ALA	59 58.4%	3 3.0%	6 5.9%	21 20.8%	8 7.9%		4 4.0%				101
BOSTON	60 60.6	15 15.2	16 16.2	5 5.1					3 3.0%	2	101
CAL-BERK	144 60.8		43 18.1	42 17.7	1 0.4		5 2.1	2 0.8%		1	238
CAL-UCLA	138 70.4	6 3.1	17 8.7	16 8.2	5 2.6				14 7.1		196
COLUMBIA	136 70.5	10 5.2	20 10.4	18 9.3			4 2.1		5 2.6		193
HARVARD	66 30.1	12 5.5	20 9.1	97 44.3	9 4.1	3 1.4%	7 3.2	5 2.3			219
HAWAII	44 57.9	10 13.2	11 14.5	9 11.8			2 2.6				76
ILL	30 46.9	5 7.8	10 15.6	18 28.1	1 1.6						64
JHU	97 33.0	19 6.5	47 16.0	115 39.1	2 0.7	4 1.4	6 2.0	2 0.7	2 0.7		294
L.LINDA	64 47.1	32 23.5	9 6.6	23 16.9	1 0.7	1 0.7	1 0.7	1 0.7	4 2.9	7	143
MASS	25 86.2	1 3.5	2 6.9					1 3.5		2	31
MICH	133 68.9	12 6.2	17 8.8	22 11.4	2 1.0		2 1.0	4 2.1	1 0.5	48	241
MINN	137 64.3	31 14.6	19 8.9	13 6.1	1 0.5	8 3.8	1 0.5	2 0.9	1 0.5		213
N.CAR	137 71.0		38 19.7	15 7.8	2 1.0			1 0.5		68	261
OKLA	52 60.5	7 8.1	21 24.4	5 5.8					1 1.2	1	87
PITT	66 55.5	8 6.7	32 26.9	11 9.2			2 1.7				119
PR	47 81.0	3 5.2	2 3.5	5 8.6	1 1.7						58
S.CAR	51 81.0	2 3.2	6 9.5	3 4.8	1 1.6						63
S.DIEGO	22 44.9	5 10.2	5 10.2	13 26.5					4 8.2		49
TEXAS	70 54.7	16 12.5	5 3.9	16 12.5	1 0.8	1 0.8	2 1.6		17 13.3		128
TULANE	103 53.7	8 4.2	22 11.5	54 28.1	1 0.5	2 1.0		1 0.5	1 0.5		192
WASH	57 63.3	9 10.0	12 13.3	12 13.3							90
YALE	79 71.2	9 8.1	12 10.8	8 7.2				3 2.7			111
TOTAL	1817 57.9	223 7.1	392 12.5	541 17.2	36 1.2	19 0.6	36 1.1	22 0.7	53 1.7	129	3268

1 All nursing degrees included in this category -- bachelor's, master's, doctorates.

B. Graduate Trends

In 1960-61 there were 770 graduates of 12 U.S. and 2 Canadian schools of public health. By 1980-81 there were over 3,000 graduates annually from the U.S. schools of public health. Many of the graduate trends reflect student trends and will not be repeated.

The MPH remains the most common degree of graduates, ranging from 60-65% of the degrees awarded each year. The MS accounts for 8-11% of the total degrees, the MSPH for 5-7%, and MHA/MHSA degrees for 4-6%.

The proportion of doctorates increased during the late 1960s to about 9% and has remained at that level, fluctuating slightly from 8-11%. The PhD supplanted the DrPH as the most commonly awarded doctoral degree in the late 1960s. In 1961-62 47% of the doctorates were DrPH degrees and 20% were PhD degrees. In 1985-86 about 31% of the doctorates were DrPH degrees and 53% were PhD degrees. Twenty-one schools of public health now offer doctoral degrees.

During the early 1960s the majority of U.S. graduates had health-related backgrounds. The professional categories for 1961-62 and 1969-70 U.S. graduates were as follows:

	1961-62		1969-70	
physicians	145	26%	204	15%
dentists	22	4%	56	4%
veterinarians	12	2%	19	1%
nurses	62	11%	186	14%
sanitarians	49	9%	59	4%
statisticians	24	4%	65	5%
bacteriologists	25	4%	54	4%
administrators	76	14%	236	17%
educators	49	9%	126	9%
engineers	29	5%	37	3%
others	66	12%	323	24%

Although current data does not provide as much information on professional categories of graduates, some comparison can be made with 1985-86 data on highest previous degree of U.S. graduates:

physicians	281	11%
dentists	23	1%
veterinarians	14	0.5%
nurses	209	8%

Over the years the graduates of schools of public health have become a more diverse group of individuals. While in some cases the actual number of medically-trained graduates has not decreased, the proportion these individuals represent in the total graduate population certainly has.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES

Graduates by Sex

YEAR	MALES		FEMALES		UNKNOWN	TOTAL
1960-61	556	72.2%	214	27.8%	0	770
1961-62	620	77.3	182	22.7	0	802
1962-63	627	73.7	224	26.3	0	851
1963-64	739	74.0	259	26.0	0	998
1964-65	813	71.2	329	28.8	0	1142
1965-66	831	68.8	377	31.2	0	1208
1966-67	795	68.0	374	32.0	65	1234
1967-68	893	64.9	483	35.1	14	1390
1968-69	1061	66.4	538	33.6	0	1599
1969-70	1148	65.9	593	34.1	0	1741
1974-75 [1]	1270	56.1	992	43.9	0	2262
1975-76	1554	53.6	1343	46.4	0	2897
1976-77	1453	52.4	1321	47.6	0	2774
1977-78 [1]	1410	50.1	1403	49.9	0	2813
1978-79	1431	49.1	1486	50.9	0	2917
1979-80	1576	47.4	1750	52.6	0	3326
1980-81 [2]	1479	46.7	1689	53.3	0	3168
1981-82	1434	44.9	1762	55.1	0	3196
1982-83	1535	44.0	1957	56.0	0	3492
1983-84	1477	44.8	1820	55.2	2	3299
1984-85	1253	41.1	1794	58.9	0	3047
1985-86	1358	41.6	1909	58.4	1	3268

1 Puerto Rico did not report in 1974-75 and 1977-78.
2 Columbia did not report in 1980-81.

Data for 1960-61/1969-70 from Dr. James Troupin and includes two Canadian schools.

Data for 1974-75/1980-81 includes bachelor degrees.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

U.S. Graduates by Race

YEAR	ASIAN		BLACK		HISPANIC PUERTO RICO		HISPANIC MAINLAND		AMERIND		WHITE		UNKNOWN	TOTAL
1974-75	73	4.0%	176	9.8%	N/A		38	2.1%	20	1.1%	1495	83.0%	187	1989
1975-76	92	3.7	188	7.5	121	4.8%	47	1.9	18	0.7	2037	81.4	32	2535
1976-77	122	4.9	176	7.1	38	1.5	43	1.7	19	0.8	2081	83.9	0	2479
1977-78	113	4.6	148	6.0	N/A		48	2.0	22	0.9	2126	86.5	2	2459
1978-79	142	5.4	164	6.3	64	2.4	46	1.8	28	1.1	2179	83.0	0	2623
1979-80	113	3.9	182	6.3	82	2.8	50	1.7	25	0.9	2452	84.4	19	2923
1980-81	149	5.7	163	6.2	46	1.8	73	2.8	24	0.9	2159	82.6	148	2762
1981-82	112	4.4	143	5.6	40	1.6	64	2.5	24	0.9	2181	85.1	156	2720
1982-83	150	5.1	166	5.6	45	1.5	51	1.7	27	0.9	2508	85.1	22	2969
1983-84	112	4.3	150	5.8	53	2.1	57	2.2	25	1.0	2191	84.6	64	2652
1984-85	125	5.0	140	5.6	39	1.6	49	2.0	18	0.7	2113	85.1	52	2536
1985-86	112	4.3	150	5.7	58	2.2	37	1.4	20	0.8	2242	85.6	84	2703

Graduates by Citizenship

YEAR	U.S.		FOREIGN		UNKNOWN	TOTAL
1974-75	1989	87.9%	273	12.1%	0	2262
1975-76	2535	87.5	362	12.5	0	2897
1976-77	2479	89.4	295	10.6	0	2774
1977-78	2459	87.4	354	12.6	0	2813
1978-79	2623	89.9	294	10.1	0	2917
1979-80	2923	87.9	403	12.1	0	3326
1980-81	2762	87.2	406	12.8	0	3168
1981-82	2720	85.1	476	14.9	0	3196
1982-83	2969	85.0	523	15.0	0	3492
1983-84	2652	81.6	597	18.4	50	3299
1984-85	2536	84.0	485	16.0	26	3047
1985-86	2703	83.0	553	17.0	12	3268

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Degree Awarded[1]

YEAR	BACHELOR		MPH		MS		MSPH		MHA/MHSA		OTHER MASTERS[2]	
1974-75	39	1.7%	1497	66.2%	N/A		148	6.5%	N/A		388	17.2%
1975-76	133	4.6	1803	62.2	243	8.4%	188	6.5	147	5.1%	151	5.2
1976-77	85	3.0	1681	60.6	274	9.9	96	3.5	156	5.6	246	8.9
1977-78	71	2.5	1851	65.8	251	8.9	152	5.4	91	3.2	134	4.8
1978-79	69	2.4	1829	62.7	322	11.0	158	5.4	115	3.9	135	4.6
1979-80	65	2.0	2076	62.4	374	11.2	212	6.4	161	4.8	129	3.9
1980-81	126	4.0	1918	60.5	307	9.7	211	6.7	133	4.2	170	5.4
1981-82	N/A		2089	65.3	326	10.2	184	5.8	143	4.5	131	4.1
1982-83	N/A		2283	65.4	373	10.7	176	5.0	200	5.7	130	3.7
1983-84	N/A		2058	62.4	298	9.0	241	7.3	186	5.6	142	4.3
1984-85	N/A		2020	66.3	266	8.7	161	5.3	168	5.5	109	3.6
1985-86	N/A		2168	66.3	339	10.4	117	3.6	171	5.2	100	3.1

YEAR	DrPH		ScD		PhD		OTHER DOCTORATE		MD-MPH		TOTAL
1974-75	69	3.0%	32	1.4%	76	3.4%	13	0.6%	N/A		2262
1975-76	90	3.1	35	1.2	94	3.2	13	0.5	N/A		2897
1976-77	82	3.0	37	1.3	88	3.2	0	0	29	1.0%	2774
1977-78	69	2.5	55	2.0	102	3.6	11	0.4	26	0.9	2813
1978-79	84	2.9	43	1.5	125	4.3	13	0.5	24	0.8	2917
1979-80	76	2.3	55	1.7	141	4.2	17	0.5	20	0.6	3326
1980-81	80	2.5	53	1.7	140	4.4	9	0.3	21	0.6	3168
1981-82	113	3.5	40	1.3	138	4.3	15	0.5	17	0.5	3196
1982-83	89	2.6	46	1.3	154	4.4	17	0.5	24	0.7	3492
1983-84	77	2.3	47	1.4	214	6.5	15	0.5	21[3]	0.6	3299
1984-85	80	2.6	54	1.8	156	5.1	13	0.4	20	0.7	3047
1985-86	107	3.3	47	1.4	182	5.6	10	0.3	27	0.8	3268

1 Joint degrees (except MD-MPH) are included with the appropriate SPH degree.

2 Includes MS, MHA/MHSA and Other Masters.

3 Includes one MD-PhD.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Area of Specialization [1]

YEAR	BIOSTAT		EPID		HSA		PHP&PM		H.EDUC/ BS		ENV.SC	
1974-75	128	6.2%	207	10.2%	637	31.3%	259	12.7%	100	4.9%	257	12.6%
1975-76	141	4.8	266	9.2	932	32.2	400	13.8	221	7.6	364	12.6
1976-77	148	5.3	291	10.5	812	29.3	312	11.3	181	6.5	373	13.4
1977-78	159	5.7	313	11.1	737	26.2	310	11.0	182	6.4	421	15.0
1978-79	135	4.6	354	12.1	760	26.1	298	10.2	176	6.1	444	15.2
1979-80	138	4.1	265	8.0	864	26.0	384	11.5	291	8.7	395	11.9
1980-81	141	4.5	281	8.9	736	23.2	263	8.3	264	8.3	375	11.8
1981-82	157	4.9	349.5	10.9	832.5	26.0	346.5	10.9	222	7.0	344.5	10.8
1982-83	148.5	4.3	392.5	11.2	962	27.6	362	10.4	233	6.7	420.5	12.0
1983-84	132.5	4.0	423	12.8	906	27.4	286	8.7	230	7.0	428.5	13.0
1984-85	135	4.4	380	12.5	867	28.5	282	9.3	275	9.0	353	11.6
1985-86	118	3.6	450	13.8	933	28.5	281	8.6	284.5	8.7	388.5	11.9

YEAR	OS&H		NUTR		BIOMED		OTHER		NONSPEC		UNKNOWN	TOTAL
1974-75	26	1.3%	120	5.9%	32	1.6%	259	12.7%	13	0.6%	224	2262
1975-76	43	1.5	145	5.0	74	2.6	226	7.8	85	2.9	0	2897
1976-77	22	0.8	131	4.7	61	2.2	443	16.0	N/A		0	2774
1977-78	19	0.7	140	5.0	88	3.1	444	15.8	N/A		0	2813
1978-79	22	0.8	164	5.6	88	3.0	476	16.3	N/A		0	2917
1979-80	92	2.8	167	5.0	124	3.7	511	15.4	95	2.9	0	3326
1980-81	114	3.6	209	6.6	98	3.1	500	15.8	187	5.9	0	3168
1981-82	146.5	4.6	204.5	6.4	92	2.9	302	9.5	194	6.1	5	3196
1982-83	95.5	2.7	158.5	4.5	72	2.1	290.5	8.3	357	10.2	0	3492
1983-84	60	1.8	120.5	3.7	90	2.7	402.5	12.2	220	6.7	0	3299
1984-85	83.5	2.7	119.5	3.9	74	2.4	295	9.7	183	6.0	0	3047
1985-86	78	2.4	111	3.4	104	3.2	304	9.3	216	6.6	0	3268

1 Graduates with dual majors counted as .5 in each area beginning in 1981-82.

U.S. SCHOOLS OF PUBLIC HEALTH
CHARACTERISTICS OF GRADUATES (Continued)

Graduates by Highest Previous Degree

YEAR	BACHELOR		NURSING DEGREE[1]		MASTERS		MD/DO		DDS	
1981-82	1339	63.3%	N/A		289	13.7%	378	17.9%	34	1.6%
1982-83	1576	59.2	185	7.0%	330	12.4	430	16.2	54	2.0
1983-84	1713	57.8	214	7.2	402	13.6	480	16.2	51	1.7
1984-85	1650	55.7	219	7.4	371	12.5	479	16.2	33	1.1
1985-86	1817	57.9	223	7.1	392	12.5	541	17.2	36	1.2

YEAR	DVM		PhD		OTHER DOCT.		OTHER DEGREE		UNKNOWN	TOTAL
1981-82	6	0.3%	41	2.0%	24	1.1%	3	0.1%	1082	3196
1982-83	15	0.6	34	1.3	16	0.6	20	0.8	832	3492
1983-84	14	0.5	46	1.6	28	0.9	16	0.5	335	3299
1984-85	15	0.5	31	1.0	42	1.4	125	4.2	82	3047
1985-86	19	0.6	36	1.1	22	0.7	53	1.7	129	3268

1 Nursing degree category includes nursing degrees at all levels -- bachelor, master or doctoral.

U.S. SCHOOLS OF PUBLIC HEALTH
GRADUATES BY SCHOOL BY MASTERS/DOCTORAL DEGREES

	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86
ALA	*	*	*	1/0	13/0	12/0	20/0	30/0	55/2	43/1	44/0	99/2
BOSTON	*	*	*	*	*	*	*	75/0	87/0	92/0	107/0	101/0
CAL-BERK	201/19	245/15	233/26	255/19	203/14	214/11	229/20	184/18	204/18	204/30	175/20	219/19
CAL-UCLA	151/12	190/26	171/13	171/14	212/26	186/14	201/16	185/24	182/16	190/36	172/17	169/27
COLUMBIA	62/5	88/6	89/9	102/8	105/6	153/12	**	137/11	149/7	185/9	190/11	183/10
HARVARD	147/11	186/16	177/14	196/28	217/32	232/34	216/39	200/26	209/21	180/22	201/20	193/26
HAWAII	57/0	97/0	131/0	143/0	152/1	160/0	158/1	149/3	176/4	116/4	104/3	72/4
ILL	62/0	89/0	79/0	79/1	67/0	59/1	82/5	78/4	86/11	66/9	70/7	57/7
JHU	175/34	159/44	191/36	177/48	213/40	180/68	240/48	220/43	211/49	247/68	208/73	234/60
L.LINDA	90/13	93/13	107/10	130/11	101/13	180/18	148/9	134/15	162/14	242/6	116/7	136/7
MASS	27/0	53/0	24/0	27/0	35/0	47/0	41/0	42/0	57/0	29/0	31/1	30/1
MICH	335/6	386/16	303/19	241/16	254/34	300/25	266/21	285/18	356/20	209/27	224/15	214/27
MINN	101/5	144/6	154/3	193/4	166/10	215/9	161/11	205/4	249/7	191/8	166/4	199/14
N.CAR	199/29	205/28	205/22	221/35	228/30	236/35	224/33	229/46	230/45	254/50	237/41	229/32
OKLA	43/21	53/9	55/12	38/11	40/12	34/12	47/14	35/14	39/14	37/10	49/8	80/7
PITT	89/6	143/9	127/12	112/11	116/7	155/15	135/18	111/24	122/19	108/14	98/20	97/22
PR	**	88/0	54/0	**	64/0	89/0	58/0	47/0	48/0	57/0	52/0	58/0
S.CAR	*	*	30/0	38/0	24/0	52/0	45/0	70/0	41/3	52/1	37/3	57/6
S.DIEGO	*	*	*	*	*	*	*	10/0	39/0	30/0	48/0	49/0
TEXAS	78/22	86/29	85/19	90/16	93/17	126/14	143/23	149/38	131/25	82/27	74/26	84/44
TULANE	94/4	119/8	120/4	150/3	140/6	161/7	178/4	136/7	172/13	164/5	166/12	179/13
WASH	31/0	39/3	61/0	56/5	56/8	71/9	67/14	85/6	85/10	69/12	85/10	81/9
YALE	91/3	69/4	86/8	85/7	84/9	110/5	101/6	94/5	96/8	98/15	90/5	102/9
TOTAL	2033/190	2532/2322	482/207	2505/237	2583/265	2972/289	2760/282	2890/306	3186/306	2945/354	2744/303	2922/346
	2223	2764	2689	2742	2848	3261	3042	3196	3492	3299	3047	3268

* Indicates school not yet in operation.

** Indicates missing data.

V. EXPENDITURES, 1985-86

Expenditures are the total monies spent by the school of public health during the fiscal year. Expenditures do not represent the amount budgeted for the schools nor total monies available under grants and contracts.

Expenditures for the 23 schools totaled $321.1 million for FY 1985-86, a 12% increase over FY1984-85. Of total funds expended, half (50%) were from institutional sources, 38% were from federal sources and 12% were from other sources. In FY 1974-75, institutional sources accounted for only 36% of expenditures, federal sources 55% and other sources 9%. Over the past twelve years expenditures have almost tripled, and there has been a shift toward more reliance on institutional funds and less reliance on federal monies.

TABLE 5-1
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1985-86

UNIVERSITY FUNDS

SCHOOL	SALARY	FRINGE	TOTAL SALARY AND FRINGE	STUDENT AID	NON-PERSONNEL EXPENSES	INDIRECT EXPENSES	TOTAL UNIVERSITY
25	8469133	1369992	9839125	0	2393251	6297013	18529389
26	7924127	1850450	9774577	3445394	4424537	3103604	20748112
27	5900931	1262799	7163730	425257	387384	5836707	13813078
28	4990872	1177748	6168620	0	458504	1622412	8249536
29	1542274	405691	1947965	201284	350285	2154577	4654111
30	2694300	341800	3036100	0	331400	971600	4339100
31	3761842	835824	4597666	0	458826	1549413	6605905
32	7184000	1462000	8646000	572000	9166000	0[1]	18384000
33	3063528	645072	3708600	28163	711266	1050276	5498305
34	1177194	435562	1612756	0	237251	486018	2336025
35	1723706	321849	2045555	12390	1059086	982614	4099645
36	1129482	215147	1344629	0	230552	590943	2166124
37	1166112	353830	1519942	38151	681489	943541	3183123
38	1314519	289194	1603713	120104	44330	1031876	2800023
39	3021724	842898	3864622	56734	795487	4042460	8759303
40	1446785	376164	1822949	0	228752	820327	2872028
41	4915168	1172612	6087780	0	832758	3315019	10235557
42	3044401	608880	3653281	20000	1727872	2885973	8287126
43	1750238	396183	2146421	148525	484776	1355290	4135012
44	1472854	241603	1714457	160060	177188	76863	2128568
45	2012828	430773	2443601	82622	1056450	535022	4117695
46	1380098	151525	1531623	42864	447206	2042709	4064402
47	723740	231491	955231	0	50423	0	1005654
Total	71809856	15419087	87228943	5353548	26735073	41694257	161011821

[1] Indirect included in previous columns.

TABLE 5-2
U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES 1985-86

GRANTS & CONTRACTS/TOTAL EXPENDITURES

SCHOOL	U.S. GOVERNMENT				OTHER SOURCES				TOTAL GRANTS	TOTAL EXPEND.
	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL	RESEARCH GRANTS	TRAINING GRANTS	STUDENT AID	SUB-TOTAL		
25	6939065	1940403	1023653	9903121	1272527	495953	25770	1794250	11697371	30226760
26	24536353	1027011	2354714	27918078	5877723	1159169	581518	7618410	35536488	56284600
27	3590370	551682	594020	4736072	3568957	642240	319850	4531047	9267119	23080197
28	1302623	488482	439525	2230630	1747210	133990	95902	1977102	4207732	12457268
29	2170760	815939	790000	3776699	417479	239036	9832	666347	4443046	9097157
30	592600	430400	145400	1168400	297300	49000	40600	386900	1555300	5894400
31	2222577	1128359	0	3350936	1575555	112404	0	1687959	5038895	11644800
32	14732000[1]	0	1548000	16280000	62110001	0	191000	6402000	22682000	41066000
33	12325687	1446084	298061	14069832	1266567	519302	18935	1804804	15874636	21372941
34	655875	660727	160673	1477275	0	0	0	0	1477275	3813300
35	34512592	392964	0	3844223	4466142	11346	0	457960	4302183	8401828
36	128977	99788	49094	277859	31964	14075	300	46339	324198	2490322
37	504010	251963	81913	837886	86079	0	0	86079	923965	4107088
38	2119672	0	0	2119672	686557	20000	0	706557	2826229	5626252
39	5257330	776450	43560	6077340	2101753	354952	0	2456705	8534045	17293348
40	1960551	367524	148946	2477021	3454	126441	0	129895	2606916	5478944
41	2087004	241650	202957	2531611	1204047	28018	22274	1254339	3785950	14021507
42	3896012	1407167	640423	5943602	2277421	170492	128792	2576705	8520307	16807433
43	3714800	603456	100500	4418756	718364	0	28838	747202	5165958	9300970
44	1152557	0	122688	1275245	0	0	0	243633	1299608	3428176
45	1227906	635360	148390	2011656	449071	705130	34747	1188948	3200604	7318299
46	2143964	1439262	113298	3696524	1876343	353400	0	2229743	5926267	9990669
47	136579	477913	0	614492	268431	0	0	268431	882923	1888577
Total	96848531	15182584	9005815	121036930	32384416	5134948	1498358	39042085	160079015	321090836

[1] Research and-training grants combined.
[2] Includes multi-purpose funds.
[3] Foundation monies, undesignated use.

U.S. SCHOOLS OF PUBLIC HEALTH
EXPENDITURES

FY	INSTITUTIONAL SOURCES		FEDERAL SOURCES		OTHER SOURCES		TOTAL EXPENDITURES
1974-75	$ 43,613,028	35.7%	$ 67,180,975	54.9%	$11,521,854	9.4%	$122,315,857
1976-77	54,456,054	38.0	73,281,169	51.1	15,554,536	10.9	143,291,759
1977-78	63,821,421	39.8	79,581,854	49.6	16,969,924	10.6	160,373,199
1979-80	82,227,292	40.6	95,920,799	47.4	24,330,800	12.0	202,478,891
1980-81	91,696,770	41.6	105,123,883	47.7	23,580,608	10.7	220,401,261
1981-82	109,925,409	45.9	101,734,232	42.4	28,121,885	11.7	239,781,526
1982-83[1]	112,532,050	48.9	90,662,549	39.4	27,080,347	11.7	230,274,946
1983-84[1]	112,476,638	48.9	84,707,805	36.8	32,730,286	14.3	229,914,729
1984-85	148,485,900	51.8	105,897,277	36.9	32,253,444	11.3	286,636,621
1985-86	161,011,821	50.1	121,036,930	37.7	39,042,085	12.2	321,090,836

1 One school did not report. In 1982-83 a small school was not included, and total expenditures were not greatly affected. However, in 1983-84 one of the largest schools was not included, and expenditures are significantly underreported.